ORDER NO. VMD0102003C8

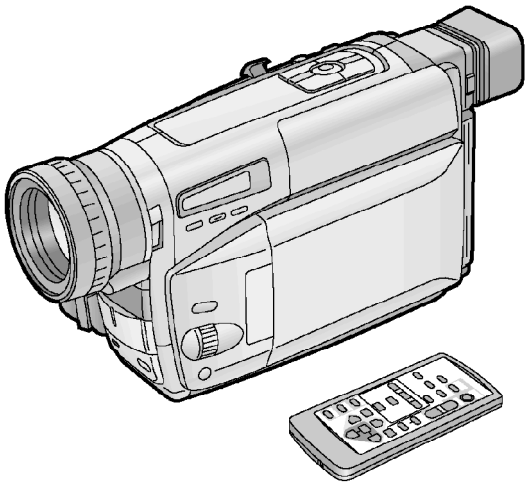
Service Manual

S-VHS-C Movie

Panasonic S-VHSC VHS PAL 625 S-VHSET

NV-VS50EG / NV-VS50EGM / NV-VS50EN / NV-VS50A / NV-VS70EN / NV-VS70A

CZ-MECHANISM



SPECIFICATIONS

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ITEM	SPECIFICATION	ITEM	SPECIFICATION
POWER	Source: Battery Pack; 7.2 V DC AC Adaptor; 7.9 V DC Consumption (Battery Operation) ; 4.5 W (When using Finder) ; 6.0 W (When using LCD Monitor) NV-VS50 ; 6.2 W (When using LCD Monitor) NV-VS70	AUDIO	Output Level/Impedance: AUDIO OUT (PHONO); -6dBV (47 kΩ loaded)/ less than 1 kΩ
			Audio Track: 1 track (Normal-Monaural)
VIDEO RECORDING SYSTEM	4 rotary heads, helical scanning system PAL	OPERATING TEMPERATURE	0-40 °C
TAPE FORMAT	S-VHS-C/VHS-C Cassette	OPERATING HUMIDITY	10-80 %
TAPE SPEED	SP mode : 23.3 mm/s LP mode : 11.7 mm/s Record/Playback Time: SP mode ; 1 hour with NV-EC60 LP mode ; 2 hours with NV-EC60 FF/REW Time: less than 2.5 min. with NV-EC60	WEIGHT	Approx. 850g (without Battery Pack)
		DIMENSIONS	88 (W) X 118 (H) X 231 (D) mm
CAMERA	PICK-UP ELEMENT: CCD (Charge Coupled Device)	STANDARD ACCESSORIES	1 pc. AC Adaptor 1 pc. Battery Pack 1 pc. Cassette Adaptor 1 pc. Shoulder Strap 1 pc. DC Output Cable 1 pc. Battery for Cassette Adaptor 1 pc. AC Cord 1 pc. AV Cord 1 pc. Remote Controller 1 pc. Lithium Battery 2 pc. Battery for Remote Controller 1 pc. S-Cable 1 pc. CD-ROM (NV-VS50EN/A, NV-VS70) 1 pc. Interface Cable (NV-VS50EN/A, NV-VS70)
	STANDARD ILLUMINATION: 1,400 lx		
	LENS: 22 : 1 Power Zoom Lens (Optical capability) F1.6 Focal Length; 2.9- 63.8mm Digital AI Auto Focus/Auto Iris Filter Diameter ; 43 mm		
	IMAGE SENSOR: 1/5-inch CCD Image Sensor		
FINDER	0.24-inch Electronic Finder		
MONITOR	2.5-inch Colour LCD Monitor (NV-VS50) 3-inch Colour LCD Monitor (NV-VS70)		
VIDEO	Television System: CCIR; 625 lines, 50 fields PAL colour signal		
	Output Level: VIDEO OUT (PHONO); 1.0 Vp-p 75 Ω terminated S-VIDEO OUT; Y Output: 1.0Vp-p, 75 Ω terminated C Output: 300mVp-p, 75 Ω terminated		

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

1. INTRODUCTION

1.1. INTRODUCTION1

This service manual contains technical information which will be allowed service personnel's to understand and service this model.
Please use part number on the parts list to make order for spare part and do not use reference number on the drawing.
If the circuit is changed or modified, this information will be followed by supplement service manual.

Note 1:
The service manual for Mechanism-Chassis is separated as another one.
Please refer to the following manual for detail of adjustment procedure for Mechanism-Chassis.
Order number for service manual of Mechanism-Chassis : VMD9912044C8

Note 2:

The service manual for AC adaptor is separated as another one. Please refer to the following manual.
Order number for AC Adaptor ----VSK0564 : VMD9907028C3(VS70)

1.2. INTRODUCTION2

Note 1:
Differences are mentioned as follows for VS50 series.

Description	EG	EGM
Packing case	VPG0H69	VPG0H70
Operating manual	VQT9091	VQT9092

1.3. FEATURE COMPARISON CHART

		VS50			VS70	
		EG	EN	A	EN	A
CCD	CCD Image Sensor	1/5"	1/5"	1/5"	1/5"	1/5"
	CCD Capacity (Pixels)	450k	450k	450k	450k	450k
LCD MONITOR	Colour LCD Monitor	2.5"	2.5"	2.5"	3"	3"
	LCD Capacity (Pixels)	112,320	112,320	112,320	112,320	112,320
B/W-EVF	B/W EVF LCD Monitor	0.24"	0.24"	0.24"	0.24"	0.24"
	EVF LCD Capacity (Pixels)	76,800	76,800	76,800	76,800	76,800
SPEED	Recording/Playback mode	SP	SP/LP	SP/LP	SP/LP	SP/LP
LENS	Optical Zoom Ratio	x22	x22	x22	x22	x22
	Shortest Image Distance (From 1st Lens)	1.8m	1.8m	1.8m	1.8m	1.8m
DIG.ZOOM	Digital Zoom (x45/x100/x550)	O/O/O	O/O/O	O/O/O	O/O/O	O/O/O
	Voice zoom	O	O	O	O	O
DSC	DSC OUT	O	O	O	O	O
D.EFECT	TBC (Time Base Corrector)	O	O	O	O	O
	Playback Digital Efect	O	O	O	O	O
S-VHS	S-VHS-ET	O	O	O	O	O
ACCESSORY	Remote controller	O	O	O	O	O
	AV cord	O	O	O	O	O
	S cord	O	O	O	O	O

2. SERVICE CAUTION

2.1. EEPROM DATA FOR SPARE PARTS OF THE MAIN C.B.A.

When the Main C.B.A. is replaced, the fixed and average data must be re-installed to EEPROM by Tatsujin kit according to the suffix for Movie camera.
Then, confirm and/or adjust the VTR and Camera adjustment one by one.

2.2. SERVICE EXTENSION CABLES.

This model is required the following extension cables for all connections.
As a convenient way, please prepare the Rear case U(K4ZZ15000013) as extra to repair easily. / (K4ZZ15000013 can be purchased through service route.)

Ref.	Parts No.	Pin	Part name	Connection	Q'ty	Rema
(a)	VFK1582A2120	21	Flat Cable	FP701-Lens Unit	1	
(b)	VFK1582D1225	12	Flat Cable	PP301-Lens Unit	1	
(c)	VFK1582E0720	7	Flat Cable	FP2002-Cylinder	1	
(d)	VFK1582A1325	13	Flat Cable	FP6002-CAM. OP.	1	
(e)	VFK1582A1625	16	Flat Cable	FP6004-S/S ZOOM VTR OP.	1	
(f)	VFK1582A0920	9	Flat Cable	FP4001-A/C Head	1	
(g)	VFK1582A1025	10	Flat Cable	FP1001-EVF	1	
(h)	VFK1582A1925	19	Flat Cable	FP2001-Capstan	1	
(i)	VFK1582A2125	21	Flat Cable	FP6001-Mecha. FPC.	1	
(j)	VFK1582A1620	16	Flat Cable	FP4002-Front	1	

NOTE:

New Parts numbers consist 4 blocks. And they has meaning as follows.

For example: VFK1582 A 21 20
1 2 3 4

1. It shows type of flexible cable, Zigzag, Straight or wire.

VFK1581	Straight Flexible cable without Connector
VFK1582	Straight Flexible cable with Connector
VFK1574	Zigzag Flexible cable without Connector
VFK1575	Zigzag Flexible cable with Connector
VFK1576	Wire cable

2. It shows pitch (mm) of connector.

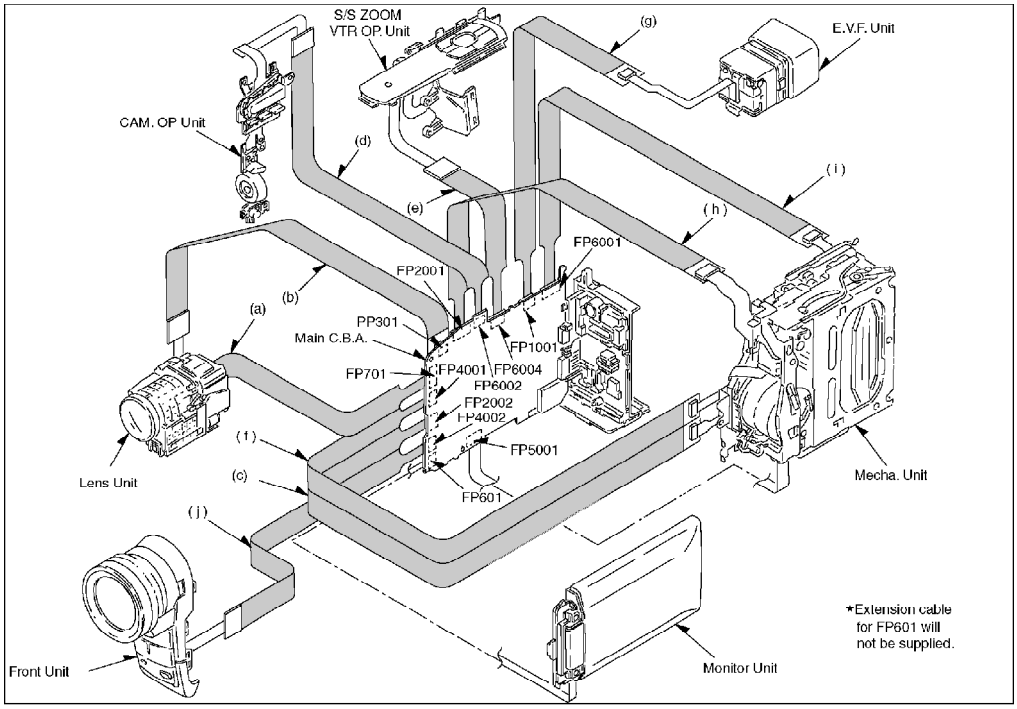
A	0.5 mm
B	0.4 mm
C	0.3mm
D	0.8mm
E	1.0mm

3. It shows number of pins of connector.

4. It shows length of cable with [cm].

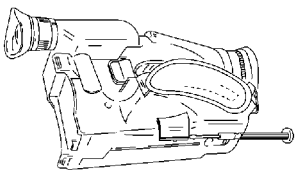
Above parts number shows;
Straight Flexible cable with connector, connector pitch is 0.5 and length of cable is 20cm.

How to use extension cables.



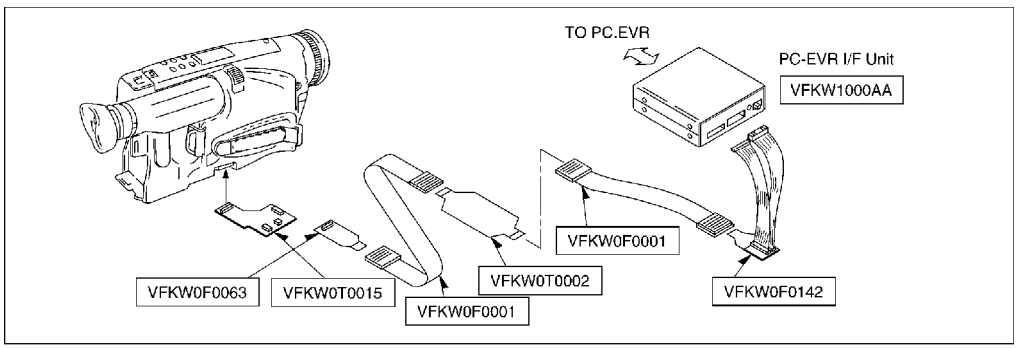
2.3. SET-UP FOR ADJUSTMENT OF TATSUJIN.

For adjustment of " TATSUJIN ", please open the small cover which is located at bottm of side case(L) using small screwdriver as follows.



・Insert a small screwdriver to small hole on side case (L) and prize off the cover.
(Be careful not to make scratch on side case.)

And then connect the JIG board and TATSUJIN cable as follows.



2.4. CAUTION FOR AC CORD (VJA0940 TYPE)

2.4.1. INFORMATION FOR YOUR SAFETY

IMPORTANT

Your attention is drawn to the fact that recording of pre-recorded tapes or discs or other published or broadcast material may infringe copyright laws.

WARNING

To reduce the risk of fire or shock hazard, do not expose this equipment to rain or moisture.

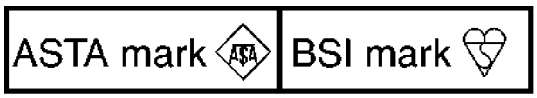
CAUTION

To reduce the risk of fire or shock hazard and annoying interference, use the recommended accessories only.

FOR YOUR SAFETY
DO NOT REMOVE THE OUTER COVER
To prevent electric shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2.4.2. CAUTION FOR AC MAINS LEAD

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three-pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5 amperes and it is approved by ASTA or BSI to BS1362
Check for the ASRA mark or the BSI mark on the body of the fuse.



If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.
If the fitted moulded plug is unsuitable for the socket outlet in your home then the fuse should be removed and the plug cut off and disposed of safety.
There is a danger of severe electrical shock if the cut off plug is inserted into any 13-ampere socket.
If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt, please consult a qualified electrician.

2.4.2.1. Important

The wires in this mains lead are coloured in accordance with the following code:

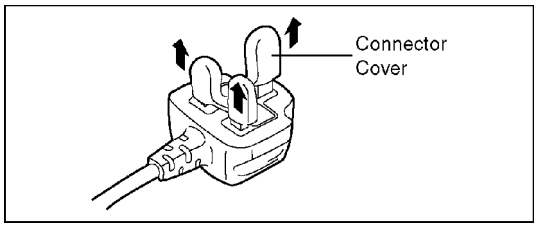
Blue	**Neutral**
Brown	**Live**

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.
Under no circumstances should either of these wires be connected to the earth terminal of the

three pin plug, marked with the letter E or the Earth Symbol.

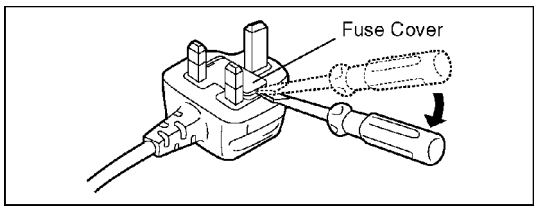
2.4.2.2. Before use

remove the Connector Cover as follows.

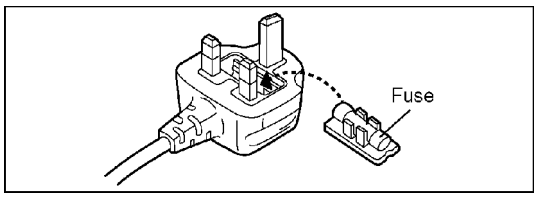


2.4.2.3. How to replace the Fuse

1. Remove the Fuse Cover with a screwdriver.



2. Replace the fuse and attach the Fuse cover.



3. SERVICE INFORMATION

3.1. SERVICE INFORMATION DISPLAY (GENERAL DESCRIPTION)

- This Movie Camera has SERVICE INFORMATION DISPLAY function which enables quick trouble-shooting.

- The Service Information Display is available with the following prcedures.

- The Service Information is displayed on the EVF and LCD monitor. (There are 4 kinds of SERVICE MODES as follow.)
In the OSD Line Output Mode, the service Information can be displayed even on TV.

MODE NAME	FUNCTION	How to use.
OSD Line Output Mode	Checking the EVF information on the TV monitor	Push the following keys simultaneously mor sec.
		FOCUS/SET + STOP
		(SIDE CASE(R)) + (TOP PANEL) (C T
SERVICE MODE 1	Remaining Battery A/D value. / Safety Device / Capstan/ Cylinder injuctions.	Push the following keys simultaneously mor sec.
		COLOR + STOP
		(SIDE CASE(R)) + (TOP PANEL) (C T
SERVICE MODE 2	Remaining Voltage A/D value. / Mechanism position / Serial key code	After chosing SERVICE MODE 1, push [DATE key.
SERVICE MODE 3	ERROR CODE Display	After chosing SERVICE MODE 2, push [DATE key.
SERVICE MODE 4	PG SHIFTER ADJUSTMENT	After chosing SERVICE MODE 3, push [DATE key.

NOTE1:
The content of all service modes (service Mode 1 to 4) are the same as previous models.
Please refer to the following Technical Information.
Order number for Technical Information : VMD9512M138

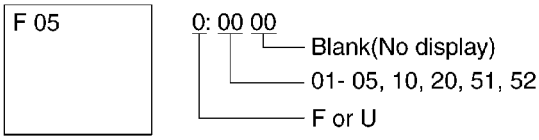
NOTE2:
When an undesirable condition occurs, the power will be turned off except zoom & focus motor lock condition. (Since this model, “ERROR CODE” is not automatically displayed on the EVF and LCD monitor, even the CAMERA LEDis not flashed.)
By turning on Service Mode 3, it is possible to check what kind of undesirale condition has occurred, even after the ERROR CODE has disappeared. Because of The ERROR CODE is memorized to EEPROM-IC.

3.2. SERVICE MODE 3 (ERROR CODE DISPLAY)

- ERROR CODE appears on counter display position as follows. (See Fig.1).

Fig.1

Display:
(Example)



Display	Condition	The Power off timing
F01	T-REEL LOCK	After 1 minute (flashing the LED)
F02	S-REEL LOCK	
F03	UNLOADING LOCK	
F04	LOADING LOCK	
F05	CYLINDER LOCK	
F51	FOCUS MOTOR LOCK	
F52	ZOOM MOTOR LOCK	
U10	DEW DETECTION	After 18 minutes (flashing the LED)
U20	HEAD CLOGGING	Not turning off

3.3. INSERTING THE BUTTON-TYPE BATTERY

Before setting the data and time, insert the button-type battery (supplied).

1 Open the [BACKUP BATTERY] Cover.

2 Insert the button-type battery so that its (+) side is visible.

3 Close the [BACKUP BATTERY] COVER.

- Before inserting or removing the button-type battery, be sure to set the [CAMERA/OFF/VCR] Switch to [OFF].
- When the button-type battery is exhausted, the [ ] Indication flashes. In this case, replace it with a new CR2025 battery.
  (The life of the battery is about 1 year.)
- To mark it easier to remove of the button-type battery, use a pointed object.
- When you remove the button-type battery, be careful not to drop it.
- **Keep the button-type battery out of the reach of children.**
- Make sure you insert the battery with its poles correctly aligned.
- The internal clock works even when the Movie Camera is turned off, and it consumes power from the button-type battery.

Note:

The lithium battery is a critical component (Type No.: CR2025 Manufactured by Panasonic.)
It must never be subjected to excessive heat or discharge.
It must therefore only be fitted in equipment designed specifically for its use.
Replacement batteries must be of the same type and manufacture.
They must be fitted in the same manner and location as the original battery, with the correct polarity contacts observed.
Do not attempt to re-charge the old battery or re-use it for any other purpose.
It should be disposed of in waste products destined for burial rather than incineration.

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type recommended by the equipment manufacturer.
Discard used batteries according to manufacturer's instructions.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt fabrikantens instruktion.

ADVARSEL!

Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

VAROITUS

Paristo voi räjähtää, jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

4. ADJUSTMENT PROCEDURES

4.1. DISASSEMBLY PROCEDURES

Flow-Chart for Disassembly Procedure

No.	Item/Part	Fig.	Removal (Screw)
1	Side Case (L) Unit	Fig.1	4-Screws (F)
		Fig.2	1-Screw (A) 1-Screw (B) 1-Screw (C) 3-Screws (D) 1-Screw (E)
		Fig.3	Locking Tab (a) Slightly open the Side Case (L) Unit. Disconnect FP6004.
2	Front Case Unit	Fig.4	4-Locking Tabs (b) Disconnect FP4002.

No.	Item/Part	Fig.	Removal (Screw)
3	Main C.B.A.	Fig.5	2-Screw (G) Remove the Shield Case. Disconnect the following connectors. FP6002, FP2001, PP301, FP701, FP4001, FP2002, FP601, FP5001, FP6001, FP1001, FP4002, PS3510, PS1003
4	Cassette Cover Unit	Fig.6	1-Screw (H)
5	Rear Case Unit	Fig.7	1-Screw (K) 2-Locking Tabs (c)
6	EVF Unit	Fig.8	2-Screws (L)
7	Mechanism Unit	Fig.9	3-Screws (M) 1-Screw (M')
8	Lens Unit	Fig.10	1-Screw (N)
9	Main Frame Unit	Fig.6	1-Screw (I) 2-Screws (J)
		Fig.11	1-Screw (O) 7-Locking Tabs (d)
10	LCD Unit	Fig.12	Remove the Barrier. 1-Screw (P'), 5-Screws (P)
		Fig.13	1-Screw (Q) 2-Screws (R) 3-Locking Tabs (f) Remove the LCD Case (Upper) U. Disconnect FP901, FP902 and FP903. 2-Screws (S) Remove the LCD Hinge Holder U.
		Fig.14	1-Screw (T) Remove the Monitor C.B.A., Back Light U., LCD Shield Sheet, Diffusion Sheet, LCD Frame, LCD Module, LCD Case (Lower) U.
11	Back light Unit (VS50 Only)	Fig.15	Remove the Polarization Sheet. Remove the LCD Terminal Rubber and Fluorescent Lump.

Fig.1

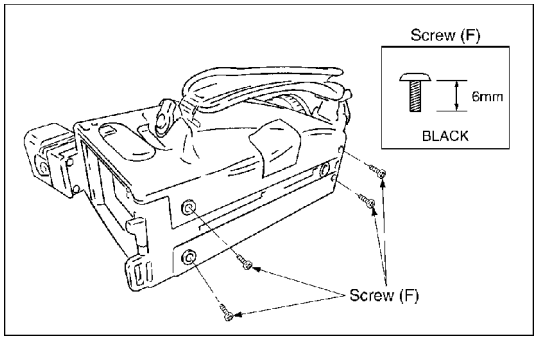


Fig.2

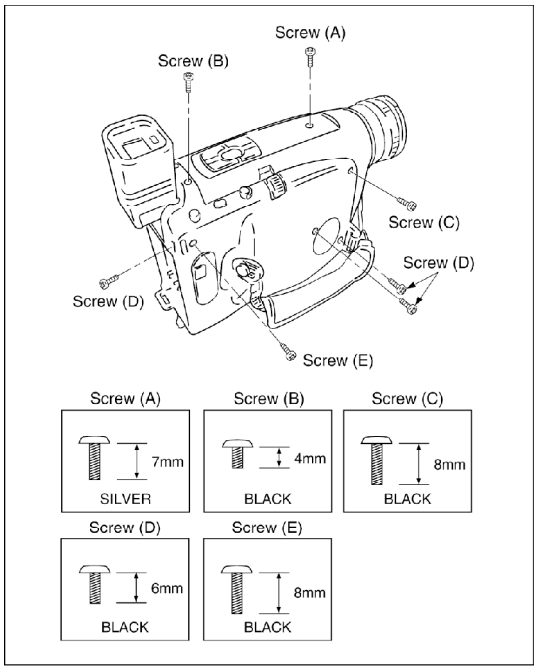


Fig.3

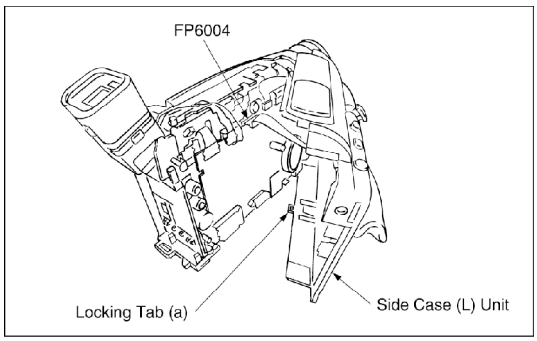


Fig.4

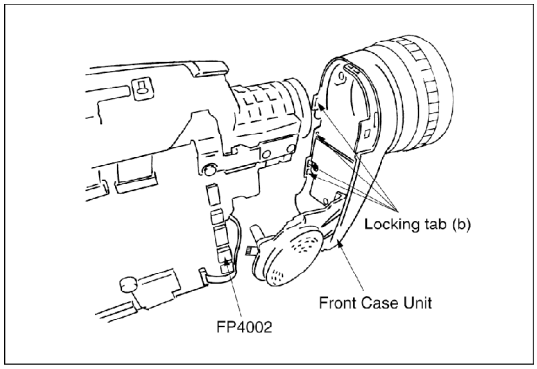


Fig.5

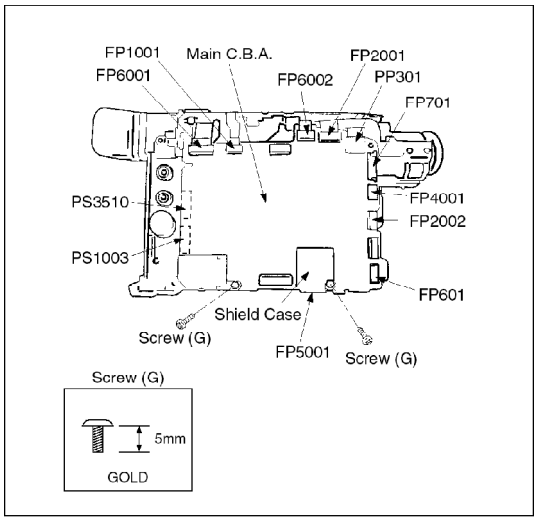


Fig.6

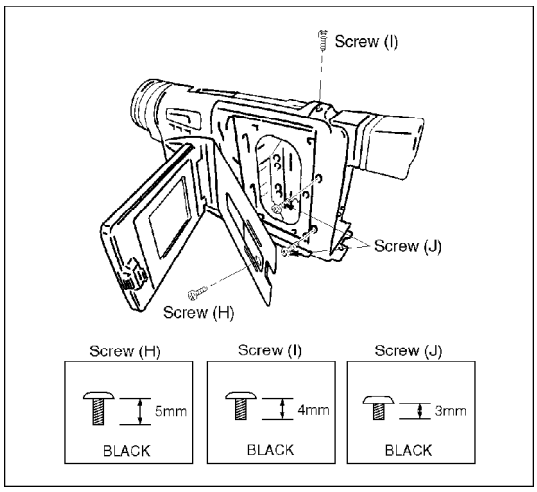


Fig.7

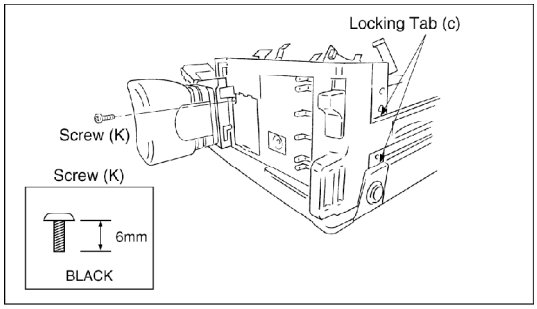


Fig.8

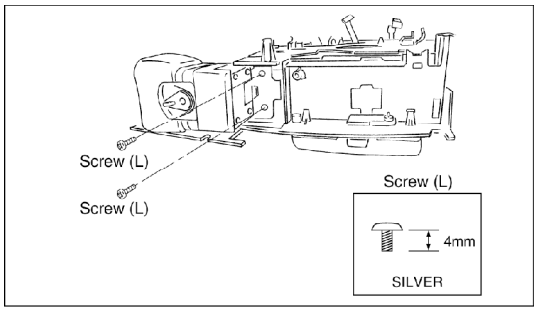


Fig.9

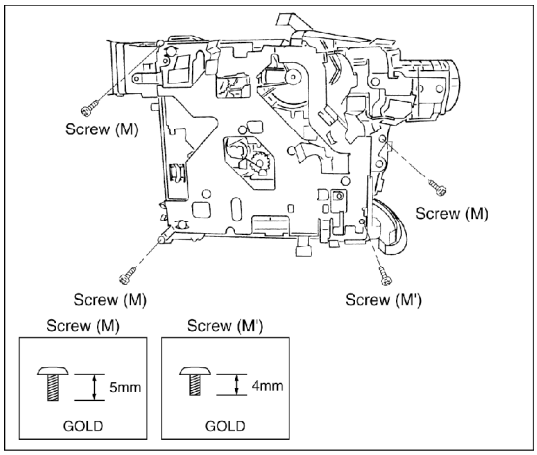


Fig.10

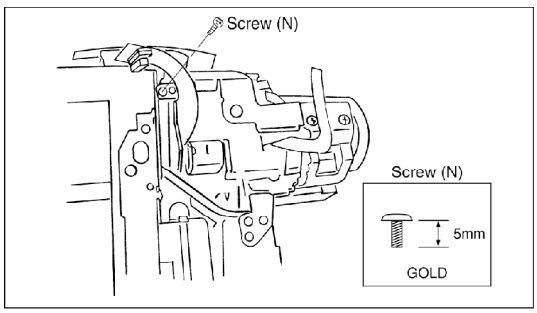


Fig.11

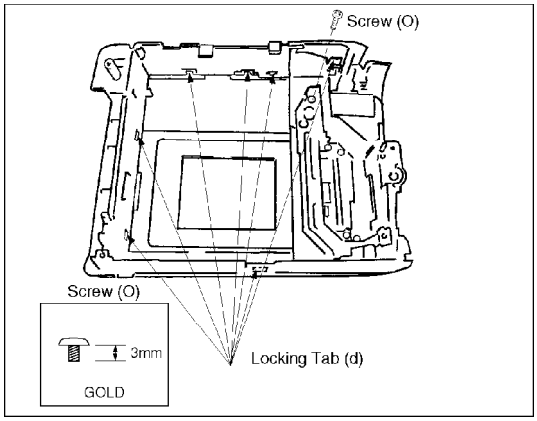

Screw (O)
Screw (O)
3mm
GOLD
Locking Tab (d)

Fig.12

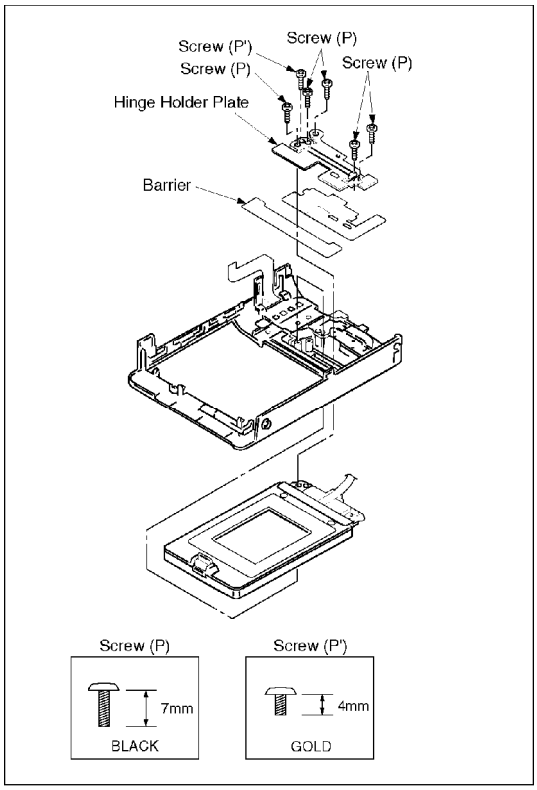

Screw (P')
Screw (P)
Screw (P)
Screw (P)
Hinge Holder Plate
Barrier
Screw (P)
7mm
BLACK
Screw (P')
4mm
GOLD

Fig.13

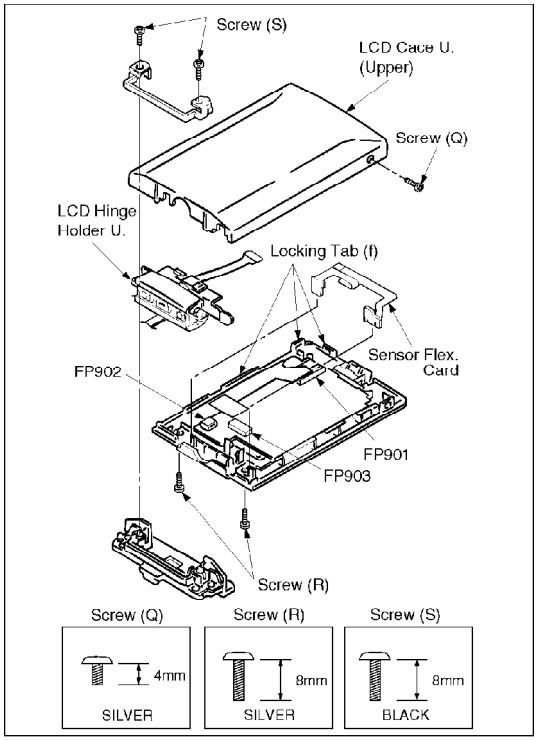

Screw (S)
LCD Case U. (Upper)
Screw (Q)
LCD Hinge Holder U.
Locking Tab (f)
Sensor Flex. Card
FP902
FP901
FP903
Screw (R)
Screw (Q)
Screw (R)
Screw (S)
4mm
SILVER
8mm
SILVER
8mm
BLACK

Fig.14

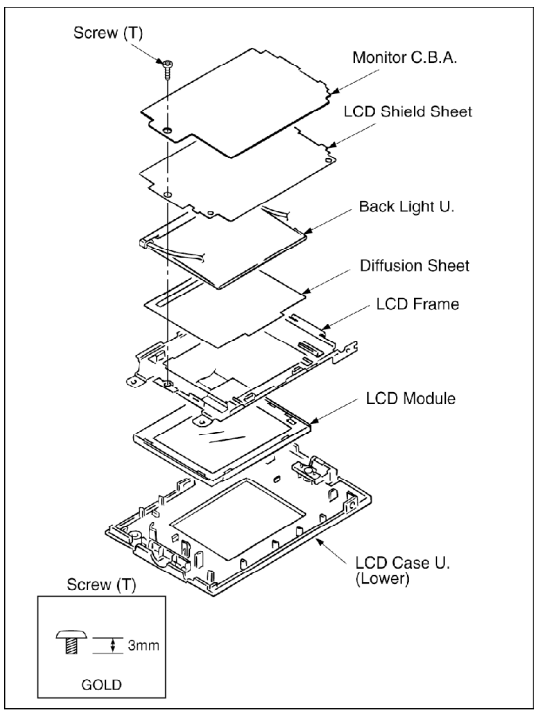
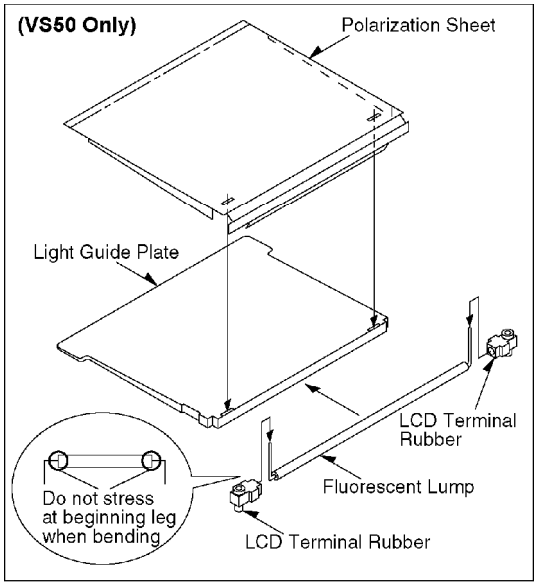

Screw (T)
Monitor C.B.A.
LCD Shield Sheet
Back Light U.
Diffusion Sheet
LCD Frame
LCD Module
LCD Case U. (Lower)
Screw (T)
3mm
GOLD

Fig.15



4.2. DISASSEMBLY PROCEDURES OF LENS UNIT

- The following flowchart describes order or steps for removing the lens units and certain printed circuit boards in order to make access to the item needing service.

- To reassemble the unit follow the steps in reverse order.

Fig. L1

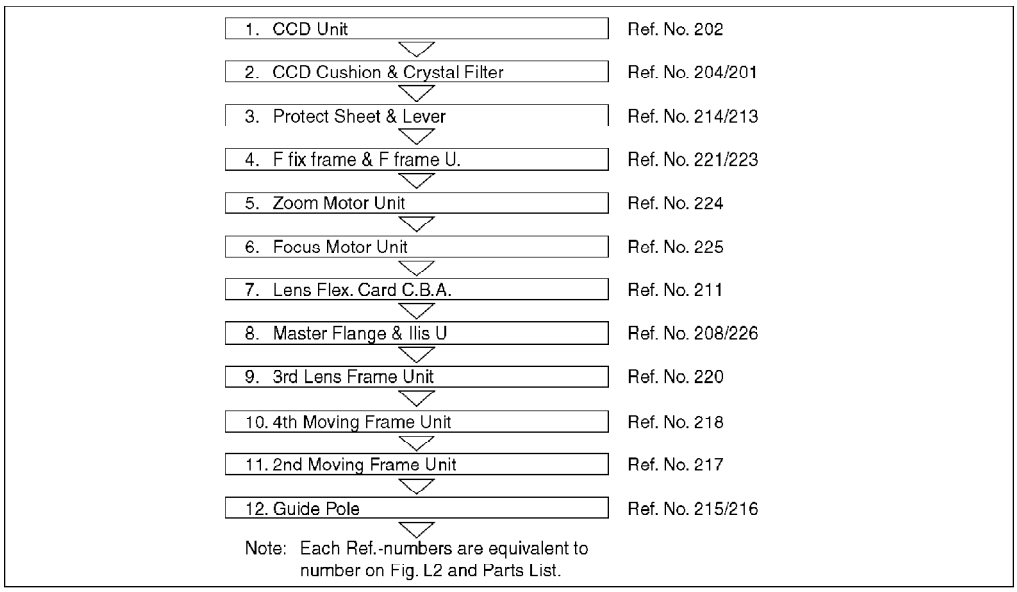
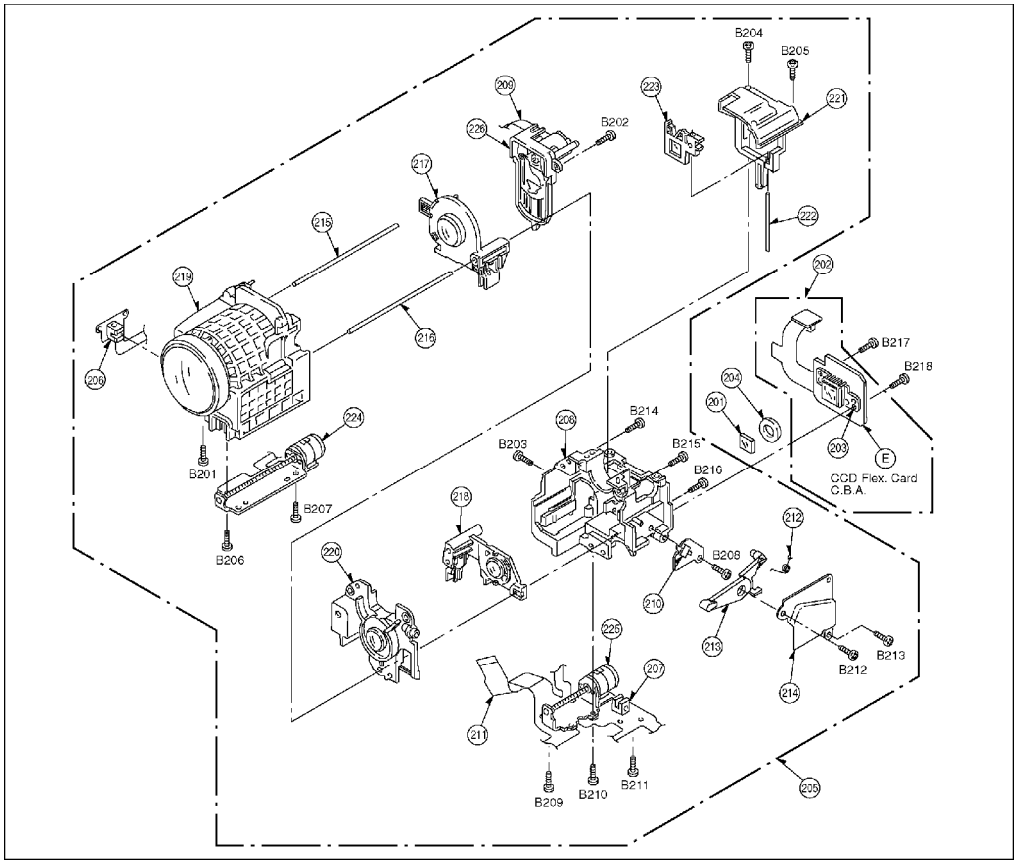

1. CCD Unit
Ref. No. 202
2. CCD Cushion & Crystal Filter
Ref. No. 204/201
3. Protect Sheet & Lever
Ref. No. 214/213
4. F fix frame & F frame U.
Ref. No. 221/223
5. Zoom Motor Unit
Ref. No. 224
6. Focus Motor Unit
Ref. No. 225
7. Lens Flex. Card C.B.A.
Ref. No. 211
8. Master Flange & Ilis U
Ref. No. 208/226
9. 3rd Lens Frame Unit
Ref. No. 220
10. 4th Moving Frame Unit
Ref. No. 218
11. 2nd Moving Frame Unit
Ref. No. 217
12. Guide Pole
Ref. No. 215/216
Note: Each Ref.-numbers are equivalent to number on Fig. L2 and Parts List.

Fig. L2



5. ABBREVIATIONS

	INITIAL/LOGO	ABBREVIATIONS
A	A.TR	Auto Tracking
	ABSF	Focus Encoder Input
	ACI	Analog Channel Cording IC
	ADCLK	Analogue Digital Clock
	ADCNT	Analogue Digital Control
	ADCS	Analogue Digital Chip Select
	AE	Auto Expose
	AECNT	Auto Expose Control
	AEIRQ	Auto Expose Interrupt Request
	AF	Auto Focus
	AFADE	Audio Fade
	AFCS	Auto Focus Chip Select
	AGC	Automatic Gain Control
	AGCCNT	Automatic Gain Control Control
	ALCCNT	Auto Level Control Control
	ALCMAIN	Auto Level Control Drive
	AMUT	Audio Mute
	AORP	Audio Overlap Pulse
	APCNT	Aperture Control
	ARTV	Artifical Vertical Sync
	ATF	Automatic Track Finding
	ATR	Auto Tracking
	AUX	Auxiliary
	AVDD	Analogue VDD
	AVSS	Analogue Ground
	AWTB	Auto White Balance B-Y
	AWTR	Auto White Balance R-Y
B	B-Y KB	B-Y Carrier Balance
	BACK	Back-up
	BATT	Battery
	BCBM(B-Y)	B-Y Carrier Balance
	BCBM(R-Y)	R-Y Carrier Balance
	BF	Burst Flag
	BFND	Burst Flag Pulse
	BFA	Burst Flug for Encoder
	BFO/BFI	Burst Flug Input/Output
	BL	Back Light
	BLC 0, I	Back Light Y Control Out, In
	BLDI/O	Back Light Drive Input / Output
	BLK	Blanking Pulse
	BLKA	Blanking for Encoder
	BLKI/O	Blanking Pulse In/Out
	BM	Balance Modulator
	BUF	Buffer
C	C CNT	Colour Control
	C/N	Carrier/Noise
	CAM	Camera
	CAM T	Camera Test
	CAM TL	Capstan Trque Limit
	CAMCLK	Camera Clock
	CAP R/F/S	Capstan Revers(H)/Stop(M)/Forward(L)
	CAPSTP H	Capstan Stop Flag (Stop High)
	CAPVM	Capstan Motor Current
	CASDWN	Cassette Down
	CBLK	Composite Blanking Pulse
	CCD	Charge Coupled Devise
	CCW	Counter-Clockwise
	CDS	Correlate Double Sampling Signal
	CDS OUT	CDS Output Signal
	CH	Charge
	CH1	Channel 1 (Odd Field)
	CHR	Character
	CHR MIX	Character Mix
	CI, CO	Buffer In/Out
	CK	Clock
	CL / CLK	Clock
	CMODE	Camera Mode
	CNR	Chrominance Noise Reduction
	CO	Control Out
	CO0-7	Chrominance Output 0 to 7 (Digital)
	COM	Common
	CP	Clamp Pulse
	CPOB	Clamp Pulse for Optical Blanking
	CPS	Composite Signal
	CRST	Camera Reset
	CS	Chip Select
	CS 0-7	Chrominance Signal Out 0-7
	CSEL	Clock Phase Select
	CSI 0-7	Chrominance Signal In 0-7
	CTSW	Crosstalk Switch
	CW	Clockwise
	CYLVM	Cylinder Motor Current or Power
D	D MODE	Digital Mode Switch Signal
	DAC	Digital Analog Convertor
	DAC	Digital Analogue Converter
	DB0-7	Data 0-7
	DCLR	Digital Clear
	DCP	Digital Clamp Pulse
	DICLK	Digital Clock
	DIS	Digital Image Stabilizer

	INITIAL/LOGO	ABBREVIATIONS
D	DISCS	Dis Chip Select
	DISP	Display
	DL	Delay Line
	DL	Delay Line
	DOBLK	Bit Clock (to D/A Converter)
	DOCTL	Data Output Control
	DODAT	Serial Data (to D/A Converter)
	DRK	Dark
	DS	Double Sampling Pulse
	DS1, 2	Double Sampling Pulse
	DSP	Digital Signal Processor
	DSP	Digital Signal Processor
	DVDD	Digital VDD
	DVSS	Digital Ground
	DZ	Digital Zoom
E	E Snap	Electric Snap Shot
	E2P	EEPROM
	EC	Error Control
	EC	Torque Control
	ECM	Electric Condencer Mic
	EE CS	EEPROM Chip Select
	EEPROM	Electric Erasable Programable Read Only Memory
	EIS	Electric Image Stabilizer
	ENV	Enverope
	EQ	Equalizer
	EVF	Electric View Finder
	EXT DC	External DC (AC Adaptor)
	EZOOM	Electric Zoom
F	F	Far (Focus)
	FB	Feed Back
	FCK	Clock
	FENC	Focus Encoder
	FM	Field Memory
	FM0-7	Field Memory 0 - 7
	FMDIR	Focus Motor Direction
	FMOEM	Field Memory Enable
	FMOEO	Field Memory Enable
	FMT	Focus Motor
	FMT1-4	Focus Motor Terminal 1-4
	FNO	F Value
	FR	Capstan Reverse High
G	GCNT	Gain Control
	GSW	Ground for Switching Power
H	H1,2	H. CCD Drive Pulse
	HASW	HEAD AMP SW
	HBRST	High Bright Set
	HCLR	High Clear
	HCP	Shift Clock for Horizontal Drive
	HD	Horizontal Drive Pulse
	HDTV	High Definition TV
	HEX	Hexadecimal
	HLT	High Bright Signal
	HSS	Horizontal Sinc Signal
	HSS	High Speed Shutter
I	INTER	Interval Recording
	INV	Inverter
	IOU	R-Y Analogue Signal Output
	IOU	Analogue R Signal Output Terminal
	IOV	B-Y Analogue Signal Output
	IOV	Analogue B Signal Output Terminal
	IOY	Analogue Y Signal Output Terminal
	IRDET	Infrared Rays Detection
	IRIS/SH	Iris / Shutter Control
	IRQ	Interrupt Request
K	KANDO	Digital Gain Up
	KB	Carrier Balance
	KND	Digital Gain Up
	KNEE	Knee Corection (γ Control)
L	LCD	Liquid Crystal Display
	LD	Load Pulse
	LDD	Liquid Direct Drive
	LEDCNT	LED Control
	LI-BATT	Lithium Battery
	LOAD	Loading
	LSB	Least Significant Bit
	LVL	LPF Switch for Auto Focus
M	MD	Modulation
	MENB	Focus Motor Enable
	MFF	Manual Focus Far
	MFN	Manual Focus Near
	MIX N.R.D.	Non Rec Data Mix
	MRST	Focus Motor Reset
	MSB	Most Signal Bit
	MVSYNC	Monitor Vertical Sync Signal

	INITIAL/LOGO	ABBREVIATIONS
N	N	Near (Focus)
	N/F	Near/Far Focus
	N/P	NTSC/PAL
	NC	No Connection
	NDE	Non Liner De-Emphasis
	NLE	Non Liner Emphasis
	NR	Noise Reduction
	NRD	Non Rec Data
	NRD BLK	No Rec Data Blanking
	NRD CLK	No Rec Data Clock
	NRDBLK	Non Rec Data Blanking
	NRE	Read Enable Input (Low Active)
	NWE	Write Enable (Low Active)
O	OB	Optical Black
	OBCNT	Optical Black Control
	OE	Output Enable
	OFS	Offset
	OP	Operation AMP Output
	OSD	ON Screen Display
	OVL	Overlap Pulse
	OZ	Optical Zoom
P	PAJ	Picture Control
	PB1-3	PNP Base 1-3
	PBCTL	Play Back Control
	PBCTL	Pre-Branking Control
	PBH	Head Amp Switch
	PBLK	Pre-Blanking (Pulse)
	PC1-3	PNP Corrector 1-3
	PCBM	Carrier Balance
	PCH	Phase Compensator (Hole AMP)
	PCI	Phase Compensator (Current)
	PCO	Phase Compensator Out
	PCS	Switching Power Control
	PCV	Phase Compensator (Voltage)
	PE	PNP Emitter
	PED	Pedestal
	PEDECNT	Pedestal Control
	PFP	Pilot Frame Position
	PGC	Pulse Generator Comparator
	POR	Power On Reset
	POSCOM	Position Common
	PREAMP	Pre-AMP
	PREBLK	Pre-Blanking
	PT	Protect for V Voltage
	PWM	Pulse Width Modulation
	PWMB	Pulse Width Modulation Pulse
Q	Q2H	Source Output Select
R	R/B	Read/Busy
	R/L	Direction Select for Data Transmition
	RA	Recording AMP
	RA1	Rec AMP 1
	RAC AC	Rec Audio Current
	RAD	Read Address Data
	RAE	Read Address Enable
	RB	Read Busy
	RB	Read Busy
	RCB	R Carrier Balance
	RE	Read Enable
	REC CC	Rec Current Control
	REC CCNT	Rec Current Control
	RECCTRL	Recording Control Pulse
	RECI	Rec Amp Switch
	RENCF	Lens Control (Forward)
	RENCR	Lens Control (Reverse)
	RERASE	Rotary Erase Head
	RGBIV1-2	1V Inverted Signal 1-2
	RST	Reset
	RSTB	R Strobe
	RSTPWD	Reset Power Down Input
	RSTR	Reset Read
	RSTW	Reset Write
	RVCO	Resister for Oscillation
	RW	Read Write
	RWAE	Read Write Enable
S	S PHOT	Supply Photo Transistor
	S/S	Start/Stop
	SBD	Serial Data
	SBI	Serial Data Input
	SBO	Serial Data Output
	SCAN0-5	Key Scan 0-5
	SCK	Serial Clock
	SCR	Search
	"SCR, S.C.R"	Still Cue Review
	SEG.	Segment
	SH/IRIS	Shutter/Iris Control
	SIOC	Serial In/Out Control
	SNS LED	Sensor LED
	SO	Serial Data Output

	INITIAL/LOGO	ABBREVIATIONS
S	SPA	ATF Sampling Pulse
	SPEN	8 Bit Data Enable
	SPST	8 Bit Data Strobe
	SRT	Start
	SSA	Start Sync block Area
	STAB	Safety Tab Switch
	STB	Stand by Signal
	STB	Strobe
T	T	Tele (Zoom)
	T PHOT	Take-up Photo Transistor
	TBC	Time Base Conntrol
	TFT	Thim Film Translstor
	TH	Thermostat for Battery
	TI	Test Mode Select
	TL	Torque Limit
	TM	Sub Code
	TMD	Sub Code Data
	TRE	Tracking Error Signal
	TREEL	Take-up Reel
	TRFIX	Tracking Fix
	TRIWAVE	Tracking Wave
	TRP	Tracking Position
	TRP	Trap
	TSR	Head Switching Refference
	TST	Time Scale Transfer
U	U/V SEL	R-Y/B-Y Select Signal
	UNLOAD	Un-Loading
	UNRE	Microprocessor Read Enable
	UNWE	Microprocessor Write Enable
	UV	R-Y/B-Y
	UV SEL	R-Y/B-Y Select Signal
V	V1-V4	V.CCD Drive Pulse
	VB	VH Filter Switching
	VCE	Power Terminal
	VCO	Voltage Control Oscillator
	VCP	Shift Clock Output for Vertical Drive
	VCTRL	Voltage Charge Control
	VD	Vertical Drive Pulse
	VDDX	X Drive Power for Colour LCD
	VDDXY	XY Drive Power for Colour LCD
	VDDY	Y Drive Power for Colour LCD
	VDREC	Video Delayed Rec
	Vgg	Voltage for Gate IC
	Vgl	Gate off Voltage
	VID	Video Signal Out
	VIN	Video In
	VITC	Vertical Interval Time Code
	VL	Low Voltage
	VLC	Variable Length Cording
	VLOCKP	Artificial Sync Pulse
	VLP	Artificial Sync Pulse
	VM	Motor Voltage
	VMD	Velocity Mode Data
	VMD1-3	Electric Shutter Mode
	VMODE	NTSC/PAL Select Switch
	VMVH	VH Filter Switching
	VORP	Video Overlap
	VRB	Voltage Refference Bottom
	VRBS	Voltage Refference Bottom Output
	VREF1R3V	Refference Voltage 1.3V
	VREF3R3V	Refference Voltage 3.3V
	VREFH	Refference Voltage High Side
	VREFL	Refference Voltage Low Side
	VRI	Refference Voltage Input
	VRO	Refference Voltage Output
	VRT	Voltage Refference Top
	VRTS	Voltage Refference Top Output
	VSS	Vertical Sync Signal
W	W	Wide (Zoom)
	WAD/WAE	Write Address Enable
	WB	White Balance
	WE	Write Enable
	WEM	Memory Write Enable
	WHD	Wide Horizontal Drive Pulse
X	XP	FG Logic Reset
Y	YCE	Cylinder Error Code
	YNCST	Noize Canceller
	YNR	Noise Reduction
Z	Z.ENC	Zoom Encoder
	Z.MIC	Zoom Mic
	ZENC	Zoom Encoder Output
	ZMT(+)/(-)	Zoom Motor (+)/(-)
	ZMTER	Zoom Motor Tele Side
	ZMW	Zoom Motor Wide Side

6. WAVEFORM TABLE

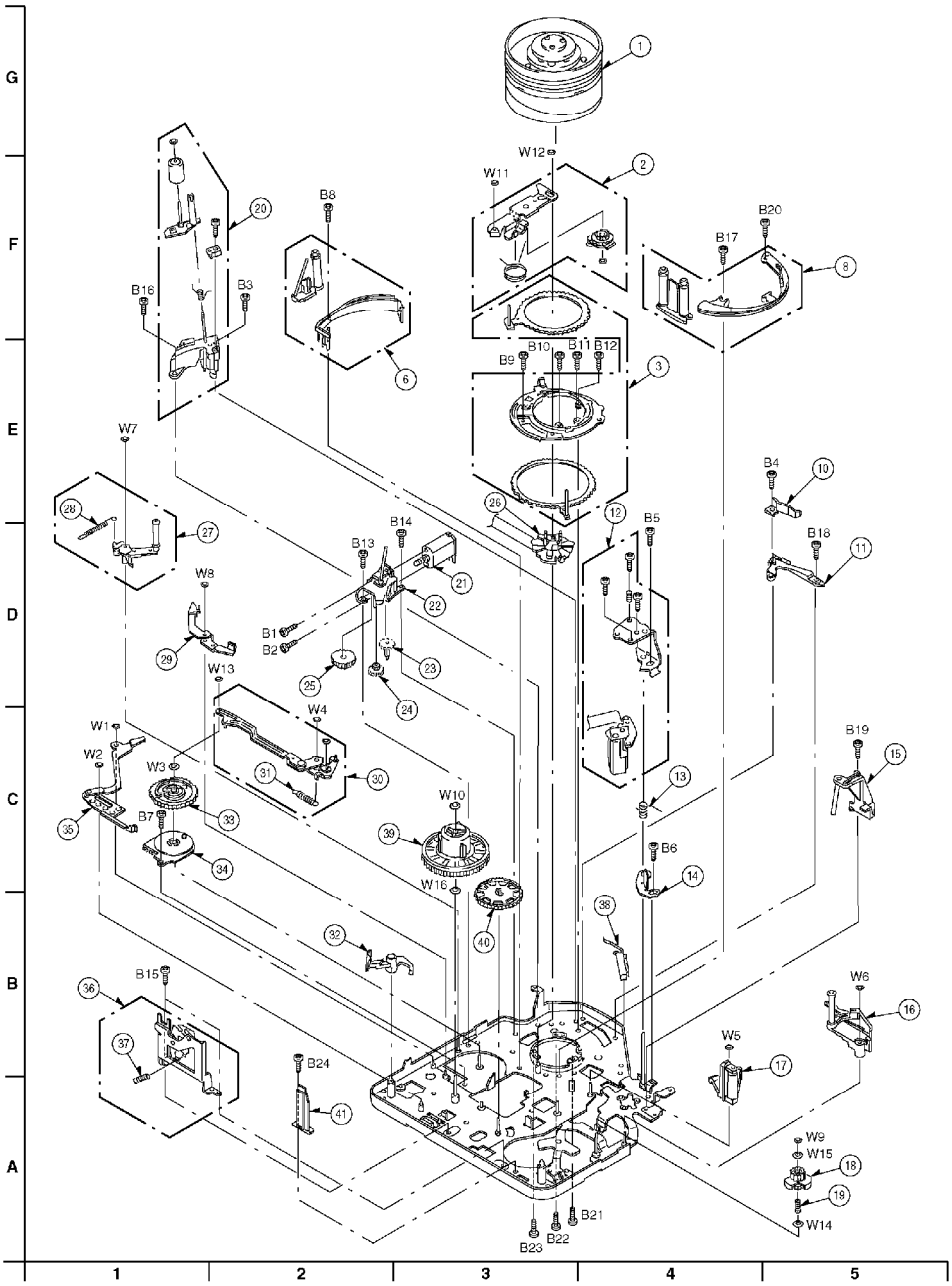
7. BLOCK DIAGRAMS

7.1. OVERALL BLOCK DIAGRAM

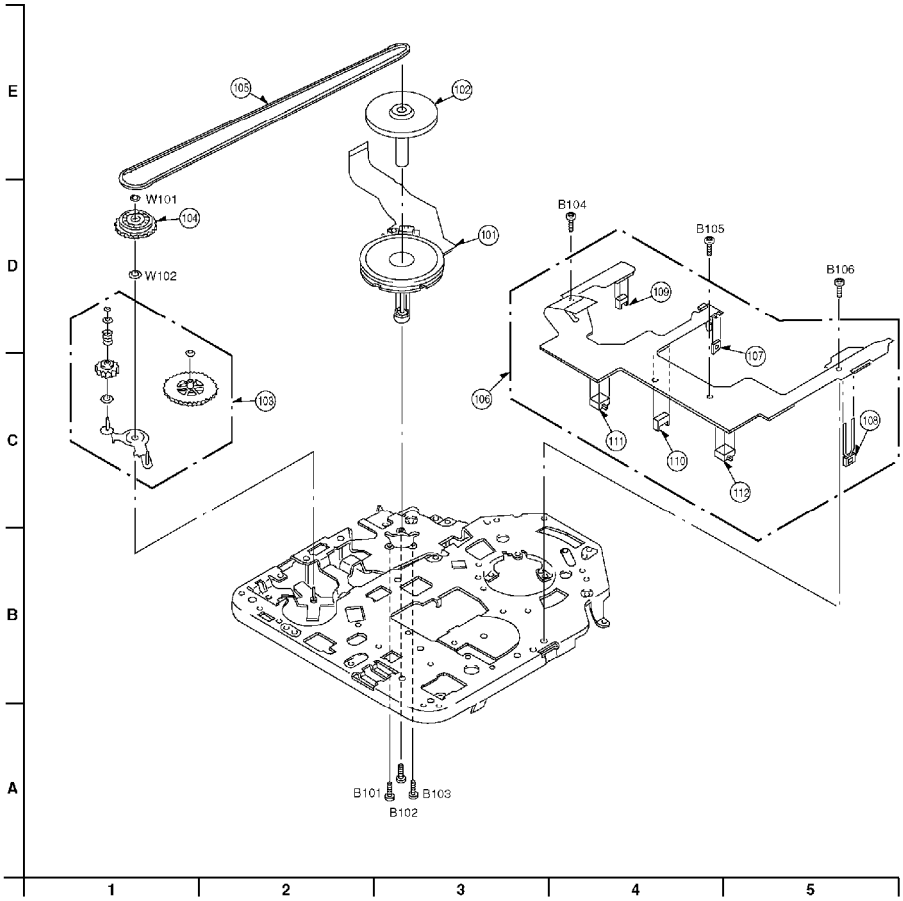
7.2. BLOCK DIAGRAM OF CONNECTION

7.3. SYSTEM CONTROL & SERVO/ POWER BLOCK DIAGRAM
7.4. VIDEO BLOCK DIAGRAM
7.5. MONITOR BLOCK DIAGRAM
7.6. CAMERA BLOCK DIAGRAM
8. SCHEMATIC DIAGRAMS
8.1. LENS DRIVE SCHEMATIC DIAGRAM
8.2. CAMERA 1 SCHEMATIC DIAGRAM
8.3. CAMERA 2 SCHEMATIC DIAGRAM
8.4. VIDEO SCHEMATIC DIAGRAM
8.5. SYSTEM CONTROL & SERVO SCHEMATIC DIAGRAM
8.5.1. SYSTEM CONTROL & SERVO DC VOLTAGE CHART (SP MODE)
8.6. AUDIO SCHEMATIC DIAGRAM
8.7. POWER SCHEMATIC DIAGRAM
8.8. SUB SERVO SCHEMATIC DIAGRAM
8.9. DSC SCHEMATIC DIAGRAM
8.10. LCD SCHEMATIC DIAGRAM
8.11. AVS OUT SCHEMATIC DIAGRAM
8.12. MONITOR & SENSOR FLEX. CARD SCHEMATIC DIAGRAM
8.13. B/W-E.V.F. SCHEMATIC DIAGRAM
8.14. MIC UNIT SCHEMATIC DIAGRAM
8.15. CCD FLEX. CARD SCHEMATIC DIAGRAM
9. CIRCUIT BOARD ASSEMBLIES
9.1. MAIN C.B.A. ADDRESS INFORMATION
9.2. MAIN C.B.A. (COMPONENT SIDE)

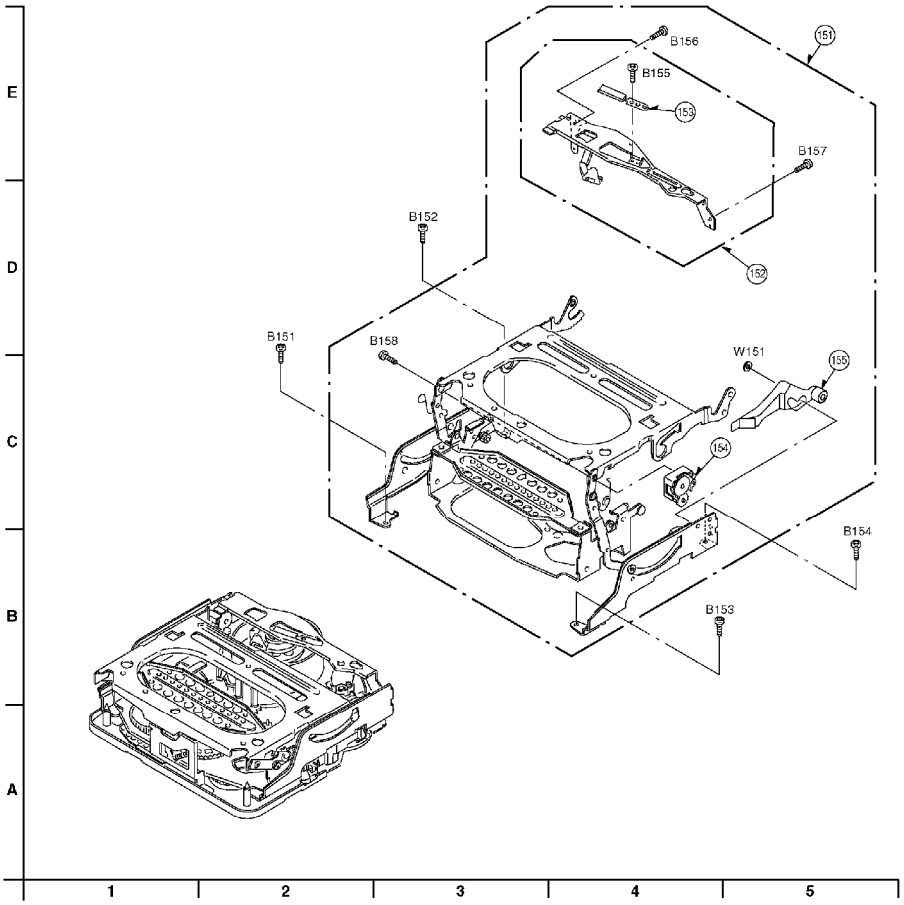
9.3. MAIN C.B.A. (FOIL SIDE)
9.4. MONITOR C.B.A.
9.5. MIC UNIT
9.6. B/W-E.V.F. C.B.A.
9.7. CCD FLEX. CARD C.B.A.
10. EXPLODED VIEWS
10.1. VTR MECHANISM SECTION (1)



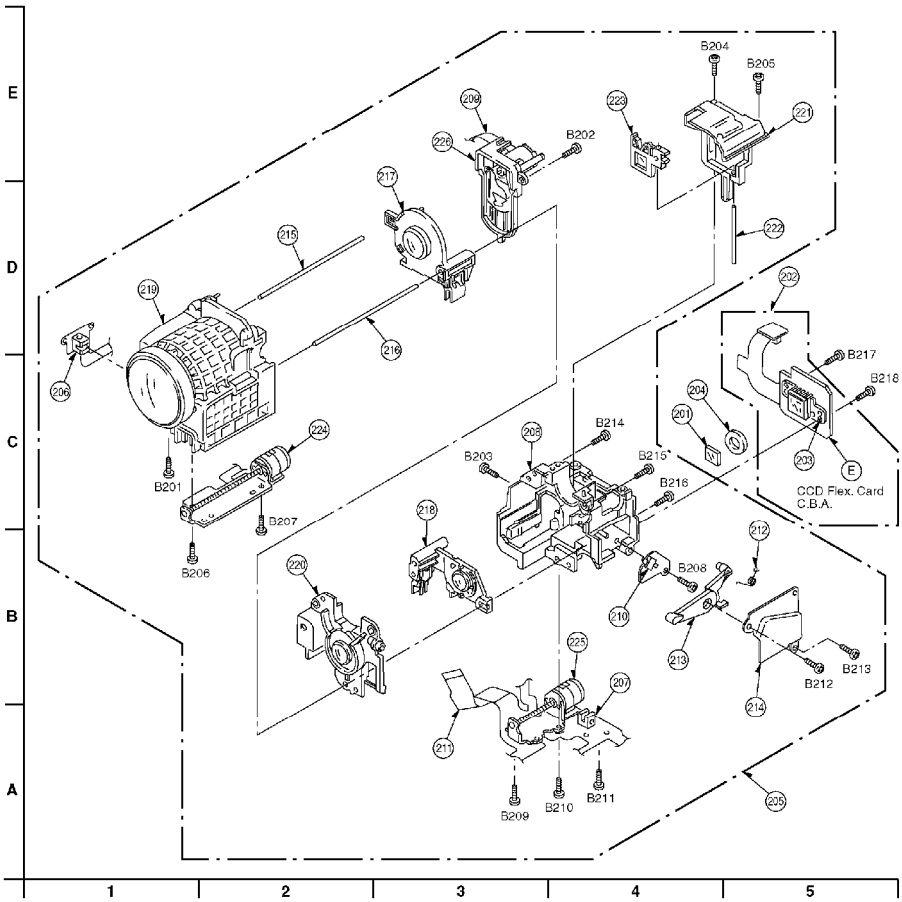
10.2. VTR MECHANISM SECTION (2)



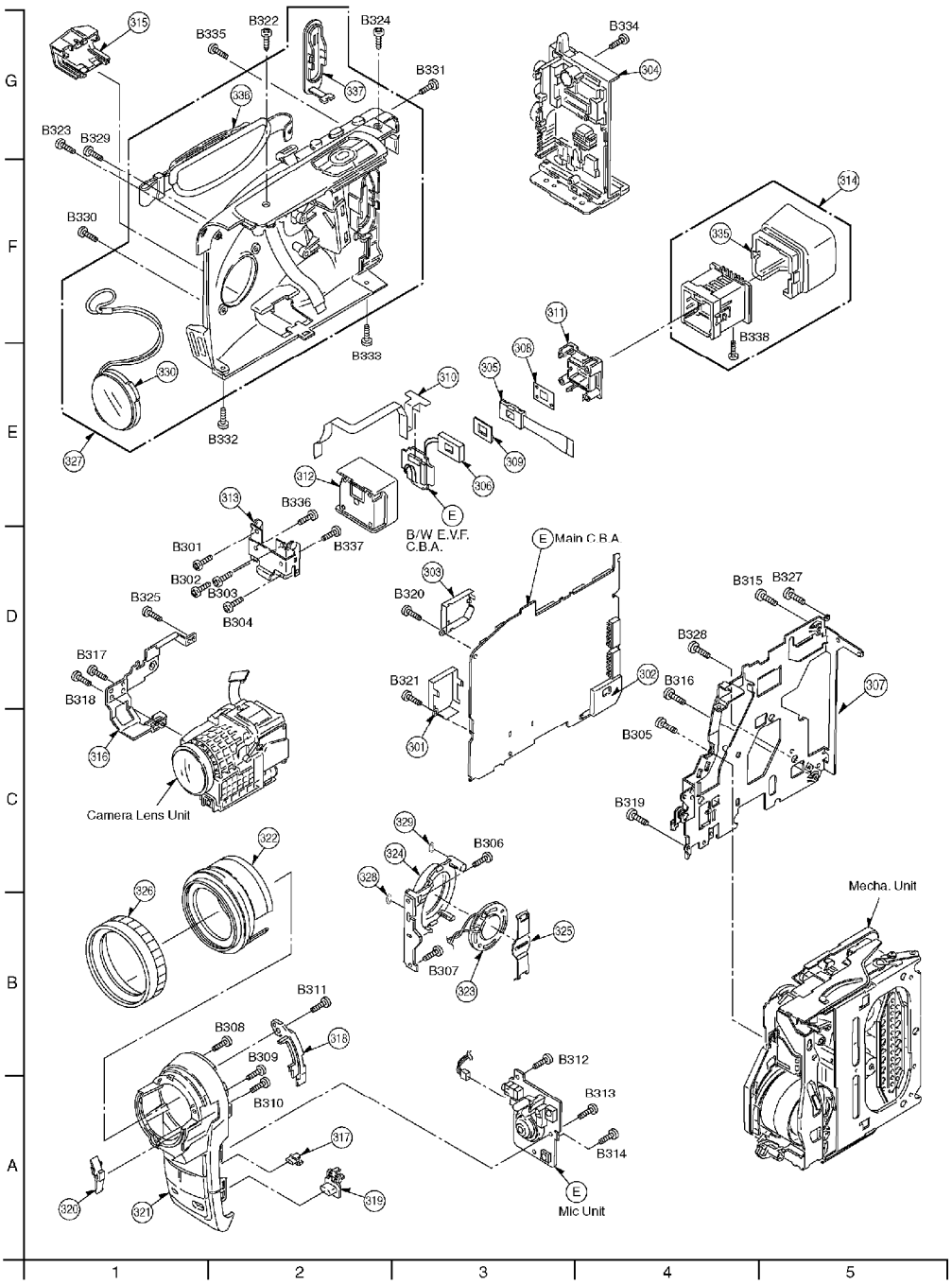
10.3. VTR MECHANISM SECTION (3)



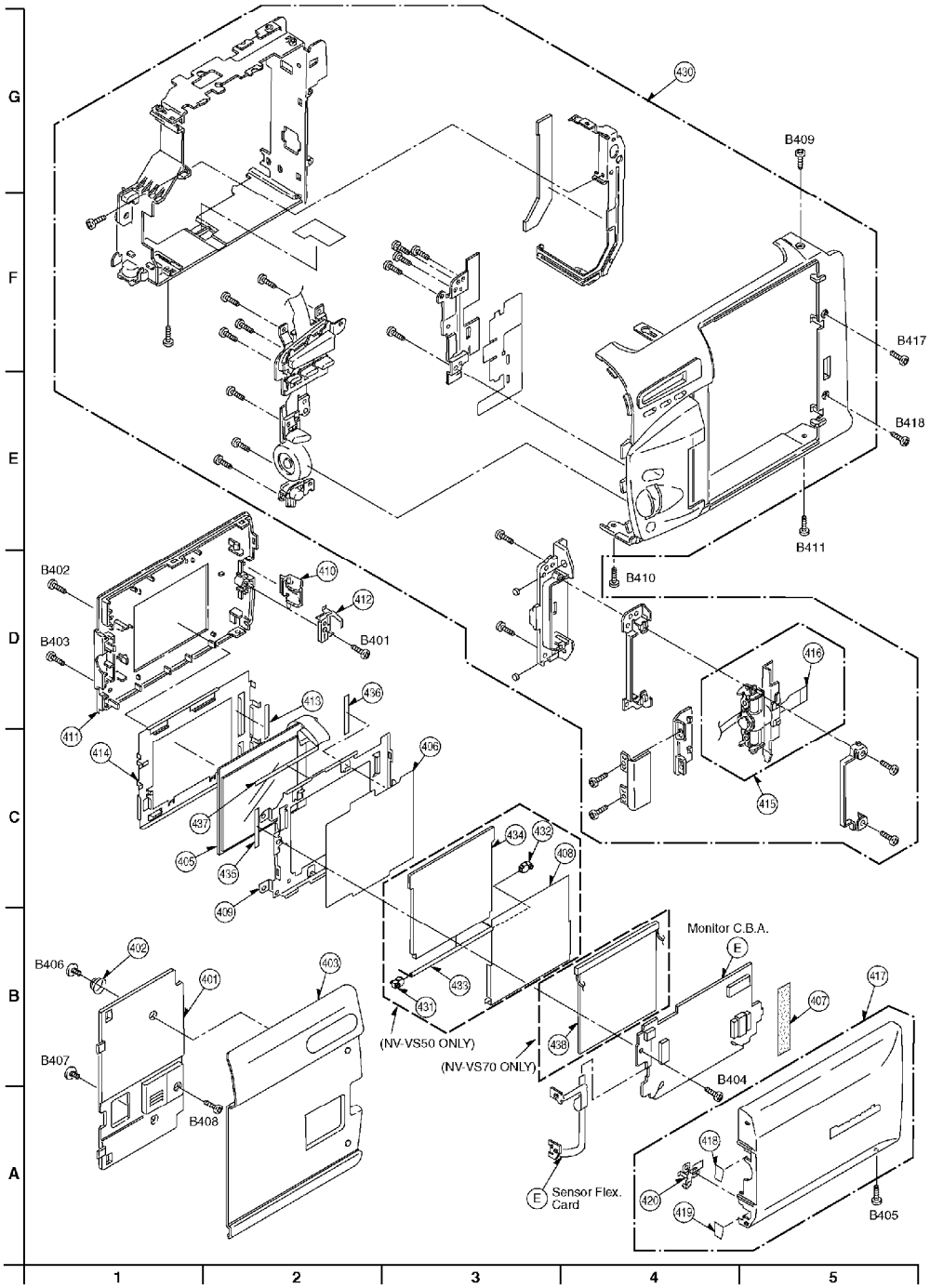
10.4. CAMERA LENS SECTION



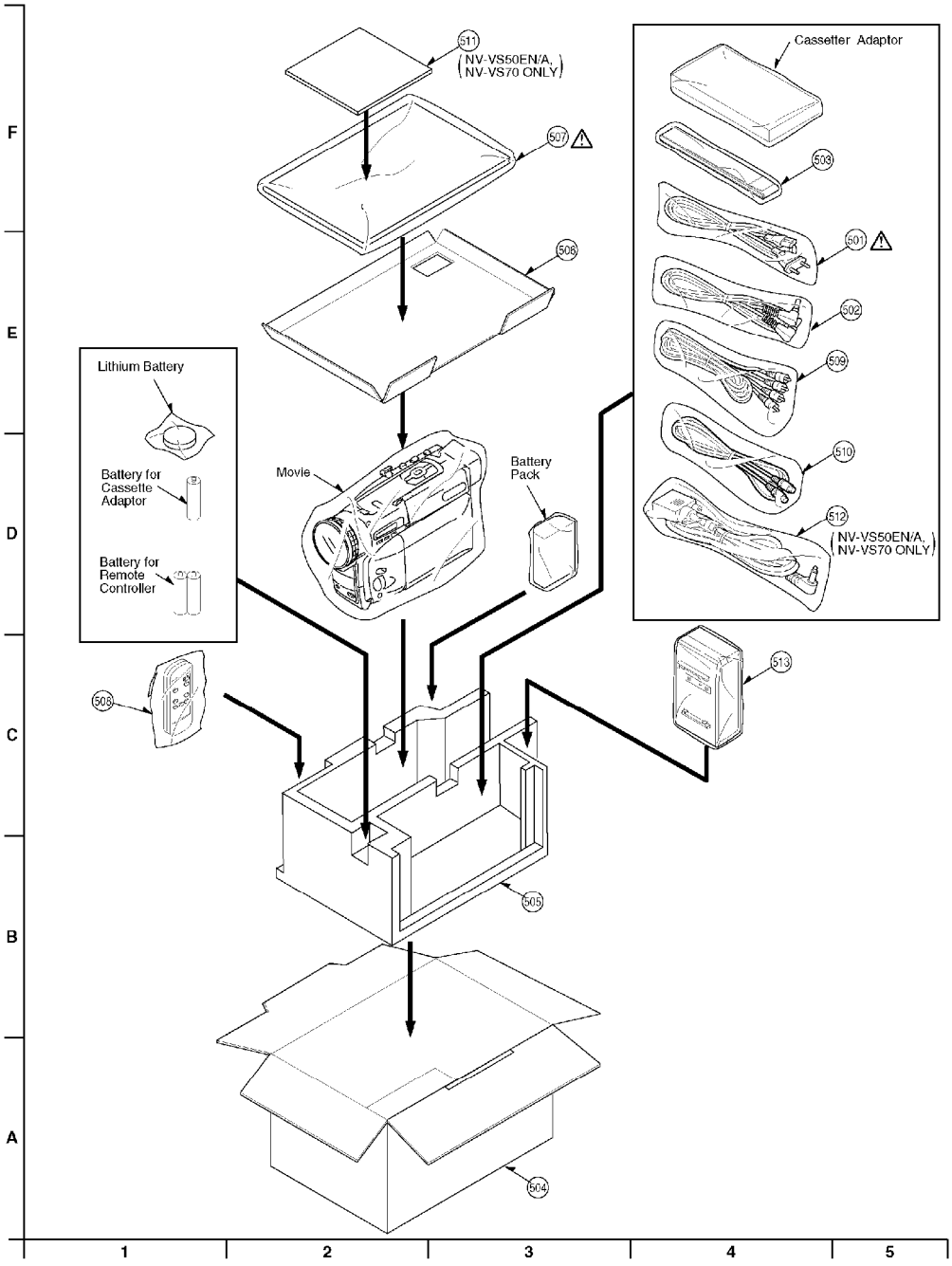
10.5. FRAME & CASING SECTION (1)



10.6. FRAME & CASING SECTION (2)



10.7. PACKING PARTS & ACCESSORIES SECTION



11. REPLACEMENT PARTS LIST

11.1. VTR MECHANISM SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
1	VEG1512	CYLINDER U.	NV-VS50EG/EGM
1	VEG1517	CYLINDER U.	EXCEPT NV-VS50EG/EGM
2	VXL2938	SWING ARM U.	
3	VXA6546	LOADING RING U.	
6	VXA6551	S-RAIL U.	
8	VXA6554	T-RAIL U.	
10	VMD3738	T-STOPER PIN	
11	VMD3736	T-BOAD STOPER	
12	VXA6556	AC HEAD U.	
13	VMB3380	AC HEAD SPRING	
14	VMA0E11	AC ADJ. PLATE	
15	VXA6557	T4 POST U.	
16	VXL2937	T3 ARM U.	
17	VXL2941	PINCH ARM U.	
18	VDG1457	T DRIVE GEAR	
19	VMB3385	REW TORQUE SPRING	
20	VXA6549	S-BOAT STOPER U.	
21	VEM0708	LOADING MOTOR (1) U.	
22	VXA6558	MOTOR HOLDER U.	
23	VDG1398	BRAKE GEAR (A)	
24	VDG1399	BRAKE GEAR (B)	
25	VDG1400	BRAKE GEAR (C)	
26	VEK7277	RT CONNECTOR U.	
27	VXL2945	TEN-REG. ARM U.	
28	VMB3386	TEN-REG. SPRING	
29	VXL2947	PAD ARM U.	
30	VXL2942	PINCH DRIVE ARM U.	
31	VMB2363	PINCH PRESSURE SPRING	
32	VML3480	REC SAFETY SW U.	
33	VDG1401	CAM GEAR	
34	VSR0245	MODE SW	K0ZZ00000523
35	VXL2940	EJECT LEVER U.	
36	VXA6560	LOCK BASE U.	
37	VMB2369	LOCK BASE SPRING	
38	VMC1568	T-BOAD SPRING	
39	VDR0354	REEL BASE (S)	
40	VDG1410	RELAY GEAR	
41	VSH0174	S-TAPE DETECT SW	K0C111B00003
B1	XQN14+A14	SCREW	
B2	XQN14+A14	SCREW	
B3	VHD1319	SCREW	
B4	VHD1320	SCREW	
B5	VHD1337	SCREW	
B6	VHD1338	SCREW	
B7	XQN14+B25	SCREW	
B8	XQN14+B25FY	SCREW	
B9	XQN14+B25FY	SCREW	
B10	XQN14+B25FY	SCREW	
B11	XQN14+B25FY	SCREW	
B12	XQN14+B25FY	SCREW	
B13	XQN14+B25FY	SCREW	
B14	XQN14+B25FY	SCREW	
B15	XQN14+B25FY	SCREW	
B16	XQN14+B35FN	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
B17	XQN14+B35FN	SCREW	
B18	XQN14+B35FN	SCREW	
B19	XQN14+B35FN	SCREW	
B20	XQN14+B4	SCREW	
B21	XQN14+C35R	SCREW	
B22	XQN14+C35R	SCREW	
B23	XQN14+C35R	SCREW	
B24	XQN14+B3	SCREW	
W1	VMX2026	WASHER	
W2	VMX2026	WASHER	
W3	VMX2026	WASHER	
W4	VMX2026	WASHER	
W5	VMX2026	WASHER	
W6	VMX2026	WASHER	
W7	VMX2027	WASHER	
W8	VMX2027	WASHER	
W9	VMX2027	WASHER	
W10	VMX2955	WASHER	
W11	VMX2974	WASHER	
W12	VMX2974	WASHER	
W13	VMX2974	WASHER	
W14	VMX2979	WASHER	
W15	VMX3000	WASHER	
W16	XWGV2D4G	WASHER	

11.2. VTR MECHANISM SECTION (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
101	VEK9115	STATOR U.	
102	VXP1977	ROTOR U.	
103	VXL2934	IDLER ARM U.	
104	VXP1975	CENTER CLUTCH U.	
105	VDV0388	CAPSTAN BELT	
106	VEK8850	MECHA. FLEX. U.	
107	GL480	LED	B3EA00000037
108	PT4800F	PHOTO TR	B3HA00000019
109	GP1S097HCZM	REEL SENSOR	B3NAA0000032
110	GP1S097HCZM	REEL SENSOR	B3NAA0000032
111	VSH0173	SWITCH	K0L1BB000020
112	VSH0173	SWITCH	K0L1BB000020
B101	XQN14+A3	SCREW	
B102	XQN14+A3	SCREW	
B103	XQN14+A3	SCREW	
B104	XQN14+B25FY	SCREW	
B105	XQN14+B25FY	SCREW	
B106	XQN14+B25FY	SCREW	
W101	XWGV12Y24G	WASHER	
W102	VMX2939	WASHER	

11.3. VTR MECHANISM SECTION (3) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
151	VXA6562	GARAGE U.	
152	VXL2950	TAPE GUIDE U.	
153	VXS0254	EARTH BRUSH U.	
154	VXP1472	DUMPER U.	
155	VML2580	TAPE OPEN LEVER	
B151	VHD0838	SCREW	
B152	VHD0838	SCREW	
B153	VHD0838	SCREW	
B154	VHD0838	SCREW	
B155	VHD0711	SCREW	
B156	XQN14+BF2	SCREW	
B157	XQN14+BF2	SCREW	
B158	XQN16+AJ8	SCREW	
W151	VMX1042	WASHER	

11.4. CAMERA LENS SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
201	VDL1051	CRYSTAL FILTER	
202	VEK8856	CCD U.	
203	VMA9484	CCD FIXING PLATE	
204	VMX2942	CCD CUSHION	
205	VXW0468	LENS U.	
206	CNA1302KR0SL	PHOTO INTERRUPTER	
207	CNA1302KR0SL	PHOTO INTERRUPTER	
208	VDW0670	MASTER FLANGE	
209	B4ABA0000003	HALL SENSOR	
210	VSP1083	DETECTION SW.	K0L1BA000015
211	VJB20796	FLAT CARD CABLE	
212	VMB3392	F SPRING	
213	VML3486	LEVER	
214	VMP6163	PROTECT SHEET	
215	VMS6714	GUIDE POLE	
216	VMS6714	GUIDE POLE	
217	VXP1983	2ND. MOVING FRAME U.	
218	VXP1986	4TH. MOVING FRAME U.	
219	VXQ0884	MAIN FRAME U.	
220	VXQ0885	3RD. LENS FRAME U.	
221	VDW0672	F FIX FRAME	
222	VMS6494	F GUIDE POLE	
223	VXQ0886	F FRAME U.	
224	VEM0712	ZOOM MOTOR U.	

Ref. No.	Part No.	Part Name & Description	Remarks
225	VEM0713	FOCUS MOTOR U.	
226	VXL2958	IRIS U.	
B201	VHD0852	SCREW	
B202	VHD0852	SCREW	
B203	VHD0852	SCREW	
B204	XQN16+CJ5	SCREW	
B205	XQN16+CJ5	SCREW	
B206	XQN16+CJ5	SCREW	
B207	XQN16+CJ5	SCREW	
B208	XQN16+CJ5	SCREW	
B209	XQN16+CJ5	SCREW	
B210	XQN16+CJ5	SCREW	
B211	XQN16+CJ5	SCREW	
B212	XQN16+CJ5	SCREW	
B213	XQN16+CJ5	SCREW	
B214	XQN16+CJ8	SCREW	
B215	XQN16+CJ8	SCREW	
B216	XQN16+CJ8	SCREW	
B217	XQN16+CJ6	SCREW	
B218	XQN16+CJ6	SCREW	

11.5. FRAME & CASING SECTION (1) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
301	VSC4600	H.A. SHIELD CASE	
302	VSC4959	POWER SHIELD CASE (UPPER)	
303	VSC4958	POWER SHIELD CASE (LOWER)	
304	K4ZZ20000029	REAR CASE U.	
305	L5BDAXG00001	EVF LCD PANEL	
306	A4LZ99000002	BACK LIGHT U.	
307	VMP6166	MECHA. EARTH PLATE	
308	VGQ6029	EVF MASK	
309	VGQ5599	EVF SHEET	
310	VJB000F3	EVF FLEX.	
311	VJF1391	EVF MOUNT PIECE	
312	VKM5320	EVF CASE	
313	VXA6823	EVF HINGE U.	
314	VYQ2112	EYE CAP HOLDER U.	
315	VKF3170	EVR COVER	
316	VMP6167	LENS FRAME	
317	VGL0865	TALLY PANEL LIGHT	
318	VGQ5570	SELECT KNOB GUIDE	
319	VGU8350	FADE BUTTON	
320	VGU8351	SELECT KNOB	
321	VYK9804	FRONT CASE (1) U.	
322	VYQ2114	LENS COVER U.	
323	L0AA02A00015	SPEAKER U.	
324	VGQ5571	SPEAKER PIECE	
325	VMC1575	SPEAKER FIXING SPRING	
326	VYQ2115	LENS HOOD U.	

Ref. No.	Part No.	Part Name & Description	Remarks
327	N9ZZ00000068	SIDE CASE (L) U.	
328	VGQ5864	SPEAKER SPACER	
329	VGQ5864	SPEAKER SPACER	
330	VYF2655	HOOD CAP U.	
335	VMG1272	EYE CAP	
336	VYC0818	GRIP BELT	
337	VKF3168	AV JACK COVER	
B301	XQN2+BJ5FZ	SCREW	
B302	XQN2+BJ5FZ	SCREW	
B303	XQN2+BJ5FZ	SCREW	
B304	XQN2+BJ5FZ	SCREW	
B305	VHD1140	SCREW	
B306	XQN2+BJ5	SCREW	
B307	XQN2+BJ5	SCREW	
B308	XQN2+BJ5	SCREW	
B309	XQN2+BJ5	SCREW	
B310	XQN2+BJ5	SCREW	
B311	XQN2+BJ5	SCREW	
B312	XQN2+BJ5	SCREW	
B313	XQN2+BJ5	SCREW	
B314	XQN2+BJ5	SCREW	
B315	XQN14+C2	SCREW	
B316	XQN14+C2	SCREW	
B317	XQN2+BJ5	SCREW	
B318	XQN2+BJ5	SCREW	
B319	XQN2+CF4	SCREW	
B320	XQN2+CF5	SCREW	
B321	XQN2+CF5	SCREW	
B322	XQN2+CF8FN	SCREW	
B323	VHD1386	SCREW	
B324	XQN2+CJ4FZ	SCREW	
B325	XQN2+CJ5	SCREW	
B327	XQN2+CJ5	SCREW	
B328	XQN2+CJ5	SCREW	
B329	XQN2+CJ6FZ	SCREW	
B330	XQN2+CJ6FZ	SCREW	
B331	XQN2+CJ6FZ	SCREW	
B332	XQN2+CJ6FZ	SCREW	
B333	XQN2+CJ6FZ	SCREW	
B334	XQN2+CJ6FZ	SCREW	
B335	XQN2+CJ8FZ	SCREW	
B336	XQN2+B4FN	SCREW	
B337	XQN2+B4FN	SCREW	
B338	XQN16+BJ5FZ	SCREW	

11.6. FRAME & CASING SECTION (2) PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
401	VGU8853	CASSETTE LOCK BUTTON	
402	VMB3300	CASSETTE COIL SPRING	
403	VYK9802	CASSETTE COVER (1) U.	NV-VS50
403	VYK9807	CASSETTE COVER (1) U.	NV-VS70
405	EDTCA29QE0	MONITOR LCD PANEL	NV-VS50
405	EDTCA22QD0	MONITOR LCD PANEL	NV-VS70
406	VGL0926	DIFFUSION SHEET	NV-VS50
406	VGL0921	DIFFUSSION SHEET	NV-VS70
407	VGQ3457	PROTECTION BARRIER	
408	VGQ6179	POLARIZATION SHEET	NV-VS50
409	VSC5172	LCD FRAME	NV-VS50
409	VSC5189	LCD FRAME	NV-VS70
410	VGQ5572	LCD LOCK LEVER	
411	VKM5551	LCD CASE (LOWER)	NV-VS50
411	VKM5557	LCD CASE (LOWER)	NV-VS70
412	VMC1576	LCD LOCK SPRING	
413	VGQ4615	LIGHT INSURATION SHEET	
414	VSC5173	LCD SHIELD CASE	NV-VS50
414	VSC4974	LCD SHIELD CASE	NV-VS70
415	VXD0342	LCD HINGE (1) U.	
416	VJB000S7	MONITOR FLEX.(1)	
417	VYK9800	LCD CASE (UPPER) U.	NV-VS50EG/EGM
417	VYK9860	LCD CASE (UPPER) U.	NV-VS50EN/A
417	VYK9805	LCD CASE (UPPER) U.	NV-VS70
418	VGQ5633	PROTECT SHEET	
419	VGQ5633	PROTECT SHEET	
420	VMC1681	EARTH SPRING	
430	N9ZZ00000065	SIDE CASE (R) U.	
431	VMG1369	LCD TERMINAL RUBBER	NV-VS50
432	VMG1369	LCD TERMINAL RUBBER	NV-VS50
433	KC56D1889DH	FLUORESCENT LUMP	NV-VS50
434	KBLU0025NCP	LIGHT GUIDE PLATE	NV-VS50
435	VGQ5579	LCD PANEL FIXING SHEET	
436	VGQ5579	LCD PANEL FIXING SHEET	
437	VGQ5579	LCD PANEL FIXING SHEET	NV-VS50
437	VSQ4637	LCD PANEL FIXING SHEET	NV-VS70
438	KBLUMJ119VM	BACK LIGHT U.	NV-VS70
B401	XQN2+BJ5	SCREW	
B402	XQN2+BJ8FZ	SCREW	
B403	XQN2+BJ8FZ	SCREW	
B404	XQN2+B35FN	SCREW	
B405	XQN2+B35FN	SCREW	
B406	VHD0794	SCREW	
B407	VHD0794	SCREW	
B408	XQN2+CF55FZ	SCREW	
B409	XQN2+CJ4FZ	SCREW	
B410	XQN2+CJ6FZ	SCREW	
B411	XQN2+CJ6FZ	SCREW	
B417	XQN2+CJ4FZ	SCREW	
B418	XQN2+CJ4FZ	SCREW	

11.7. PACKING PARTS & ACCESSORIES SECTION PARTS LIST

Note: 1. *Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.

Ref. No.	Part No.	Part Name & Description	Remarks
501	VJA0664	AC CORD	⚠ K2CR2DA00004 NV-VS50EG/EGM/EN,NV-VS70EN
501	VJA0754	AC CORD	⚠ K2CJ2DA00002 NV-VS50A,NV-VS70A
502	VJA1128	DC CORD	K2GJ2DC00002
503	VFC3299-A	SHOULDER STRAP	
504	VPG0H69	PACKING CASE	NV-VS50EG
504	VPG0H70	PACKING CASE	NV-VS50EGM
504	VPG0H72	PACKING CASE	NV-VS50EN
504	VPG0H73	PACKING CASE	NV-VS50A
504	VPG0H77	PACKING CASE	NV-VS70EN
504	VPG0H78	PACKING CASE	NV-VS70A
505	VPN5513	CUSHION	
506	VPN5514	SPACER PAD	
507	VQT9091	OPERATING INSTRUCTIONS(GERMAN/FRENCH/DUTCH/ITALIAN)	⚠ NV-VS50EG
507	VQT9092	OPERATING INSTRUCTIONS(GERMAN/SPANISH/DANISH/SWEDISH)	⚠ NV-VS50EGM
507	VQT9180	OPERATING INSTRUCTIONS(ENGLISH/SPANISH/RUSSIAN/CHINESE)	⚠ NV-VS50EN/A,NV-VS70
507	VQT9094	OPERATING INSTRUCTIONS(ENGLISH/RUSSIAN/CHINESE/ARABIC)	⚠ NV-VS50EN/A,NV-VS70
508	N2QAEC000008	REMOTE CONTROLLER	
509	VFA0298	AV CORD	K2KA4CA00001
510	VJA1120	S-VIDEO CABLE	K2KZ9BA00001
511	VFF0079	CD-ROM	NV-VS50EN/A,NV-VS70
512	VJA1122	INTERFACE CABLE	K1V208A10002 NV-VS50EN/A,NV-VS70
513	N0JZZG000004	AC ADAPTOR	NV-VS50

11.8. ELECTRICAL PARTS LIST

Note: 1. Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE: Components identified with the mark △ have the special characteristics for safety. When replacing any of these components, use only the same type.
3. Unless otherwise specified,
All resistors are in OHMS, K=1,000 OHMS. All capacitors are in MICROFARADS (uf), P=uuF.
4. The P.C. Board units marked width "■" show below the main assembled parts.
5. The marking (RTL) indicaters the retention time is limited for this item.
After the discontinuation of this assembly in production, it will no longer be available.

Ref. No.	Part No.	Part Name & Description	Remarks
■	VEP23523C	MAIN C.B.A.	(RTL)
■	VEP28283A	EVF C.B.A.	(RTL)
■	VEP26250B	MONITOR C.B.A.	(RTL) NV-VS50
■	VEP26250A	MONITOR C.B.A.	(RTL) NV-VS70
■	VEK9252	MIC UNIT	
■	VEP22304A	CCD FLEX. CARD C.B.A.	(RTL)
■	VEK8902	LENS FLEX. CARD C.B.A.	(RTL)
■	VEK8903	SENSOR FLEX. CARD	(RTL)
■	VEP23523C	MAIN C.B.A.	(RTL)
C301	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C302	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C303	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	
C304	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C305	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	
C306	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C307	VCEV1ARV101V	E.CAPACITOR CH 10V 100U	F2H1A101A001
C309	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C310	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C311	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C312	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C314	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C317	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C318	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C319	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	
C320	F3F0J1060005	TANTALUM CAPACITOR	
C321	F3F0J1060005	TANTALUM CAPACITOR	
C322	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C325	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C326	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	
C328	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C329	F3F0J1060005	TANTALUM CAPACITOR	
C330	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C332	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C333	F3F0J1060005	TANTALUM CAPACITOR	
C334	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C335	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C336	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C339	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C342	ECUX1H080CCV	C.CAPACITOR CH 50V 8P	
C344	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C345	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	
C346	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C347	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	
C348	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C349	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	
C350	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C351	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C352	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C353	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	

Ref. No.	Part No.	Part Name & Description	Remarks
C354	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C355	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C356	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C357	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C359	F3F0J1060005	TANTALUM CAPACITOR	
C360	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C362	ECST1AY225Z	T.CAPACITOR CH 10V 2.2U	ECST1AY225R
C364	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C365	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	
C402	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	
C403	ECYX1H821JCV	C.CAPACITOR CH 50V 820P	
C404	ECYX1H821JCV	C.CAPACITOR CH 50V 820P	
C405	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	
C406	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	
C408	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	
C409	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	
C410	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C411	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C412	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	
C413	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	
C414	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C601	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C604	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C606	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C701	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C702	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C703	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C704	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C705	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C706	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C707	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C708	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C709	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C711	VCEV1CRV470V	E.CAPACITOR CH 16V 47U	F2H1C470A001
C712	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C713	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C719	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C721	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	
C723	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	
C1001	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	
C1003	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	
C1004	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1005	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1006	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C1008	ECUM1A225KBM	C.CAPACITOR CH 10V 2.2U	
C1009	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	
C1010	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1012	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1014	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	
C1015	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1017	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	
C1019	ECUM1E334KBM	C.CAPACITOR CH 25V 0.33U	
C1020	ECUM1E334KBM	C.CAPACITOR CH 25V 0.33U	
C1022	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	

Ref. No.	Part No.	Part Name & Description	Remarks
C1024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1025	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C1026	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C1027	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C1028	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	
C1030	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C1032	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1033	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1034	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1035	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1037	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	
C1041	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C1046	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C1051	ECUM1C334KBN	C.CAPACITOR CH 16V 0.33U	
C1055	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1057	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1063	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1064	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1065	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	
C1066	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	
C1071	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	
C1080	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	
C1081	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	
C1082	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C1601	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C1602	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C1603	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C1801	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C1802	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C1804	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C1807	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C1808	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C1809	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	
C2001	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C2002	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2003	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2004	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	
C2005	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2006	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2007	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2008	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C2010	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2011	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2012	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2013	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2014	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2015	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2016	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2017	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C2018	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	
C2019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C2020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C2021	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	

Ref. No.	Part No.	Part Name & Description	Remarks
C2022	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C2023	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C2024	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2032	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C2037	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3001	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C3002	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	
C3007	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	
C3009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3101	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	
C3102	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C3110	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	
C3111	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	
C3112	F3F0J1060005	TANTALUM CAPACITOR	
C3114	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	
C3115	ECYX1H821JCV	C.CAPACITOR CH 50V 820P	
C3117	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	
C3120	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3201	F3F0J1060005	TANTALUM CAPACITOR	
C3203	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3204	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	
C3205	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	
C3206	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3208	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C3209	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C3211	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	
C3214	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3301	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	
C3302	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	
C3303	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	
C3304	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	
C3305	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	
C3306	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C3308	F3F0J1060005	TANTALUM CAPACITOR	
C3309	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3310	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	
C3311	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	
C3312	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	
C3313	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3314	ECUM1E273KBV	C.CAPACITOR CH 25V 0.027U	
C3315	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3316	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	
C3317	F3F0J1060005	TANTALUM CAPACITOR	
C3318	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C3319	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3320	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3321	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3322	F3F0J1060005	TANTALUM CAPACITOR	
C3324	F3F0J1060005	TANTALUM CAPACITOR	
C3325	F3F0J1060005	TANTALUM CAPACITOR	
C3327	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	
C3328	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3329	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	

Ref. No.	Part No.	Part Name & Description	Remarks
C3330	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3331	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3332	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3333	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3334	F3F0J1060005	TANTALUM CAPACITOR	
C3336	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3337	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C3338	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C3339	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3340	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3341	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3342	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3343	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3344	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3345	F3F0J1060005	TANTALUM CAPACITOR	
C3347	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3348	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3349	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3350	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C3351	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3352	F3F0J1060005	TANTALUM CAPACITOR	
C3354	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3355	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3356	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	
C3358	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3359	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3360	F3F0J1060005	TANTALUM CAPACITOR	
C3361	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	
C3362	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C3363	ECYX1H821JCV	C.CAPACITOR CH 50V 820P	
C3370	F3F0J1060005	TANTALUM CAPACITOR	
C3402	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3406	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3450	F3F0J1060005	TANTALUM CAPACITOR	
C3451	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3452	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	
C3454	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	
C3455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C3457	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3460	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3461	F3F0J1060005	TANTALUM CAPACITOR	
C3462	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3463	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3464	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3465	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C3501	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C3502	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C3503	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C3504	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3505	F3F0J1060005	TANTALUM CAPACITOR	
C3507	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3511	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C3512	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C3513	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001

Ref. No.	Part No.	Part Name & Description	Remarks
C3514	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3515	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C3552	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C4001	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	
C4002	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	
C4003	ECUX1H123KBV	C.CAPACITOR CH 50V 0.012U	
C4005	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4006	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	
C4007	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4008	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C4010	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C4011	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4012	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4014	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4015	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4016	F3F0J1060005	TANTALUM CAPACITOR	
C4017	F2H0J151A003	TANTALUM CAPACITOR	
C4019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4020	F3F0J1060005	TANTALUM CAPACITOR	
C4021	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C4022	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	
C4023	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C4024	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	
C4025	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	
C4026	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4027	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C4028	ECST1CY475Z	T.CAPACITOR CH 16V 4.7U	
C4029	ECUX1A334KBV	C.CAPACITOR CH 10V 0.33U	
C4030	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4031	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4032	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C4033	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4034	ECUX1H223KBN	C.CAPACITOR CH 50V 0.022U	
C4035	ECST1VY334Z	T.CAPACITOR CH 35V 0.33U	ECST1VY334R
C4036	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	
C4037	ECST1CY335Z	T.CAPACITOR CH 16V 3.3U	
C4038	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4039	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	
C4040	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4041	VCEV1CRV100R	E.CAPACITOR CH 16V 10U	F2H1C100A001
C4042	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	
C4043	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	
C4044	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4045	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	
C4046	ECUM2A472JCM	C.CAPACITOR CH 100V 4700P	
C4047	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C4048	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	
C4049	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	
C4050	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	
C4051	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C4052	ECST0JX226Z	T.CAPACITOR CH 6.3V 22U	
C4054	ECUX1A224KBV	C.CAPACITOR CH 10V 0.22U	
C4055	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	
C4057	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	

Ref. No.	Part No.	Part Name & Description	Remarks
C4059	ECUM1C474KBN	C.CAPACITOR CH 16V 0.47U	
C4065	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C4071	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C4073	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C4074	ECUX1C224KBV	C.CAPACITOR CH 16V 0.22U	
C5001	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5002	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5003	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5004	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5005	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C5006	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C5007	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C5008	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	
C5009	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5010	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5011	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	
C5012	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5013	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5014	F3F0J1060005	TANTALUM CAPACITOR	
C5016	F3F0J1060005	TANTALUM CAPACITOR	
C5017	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5018	F3F0J1060005	TANTALUM CAPACITOR	
C5019	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C5020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5021	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C5022	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C5041	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C6001	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C6004	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6005	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6006	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6007	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6009	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C6010	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C6011	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C6013	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6014	VCEV1CHY101V	E.CAPACITOR CH 16V 100U	F2H1C101A003
C6016	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6017	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	
C6018	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6019	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C6020	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6021	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6026	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6027	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C6028	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C6029	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C6031	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C6034	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	
C6038	VCEV0JHY470R	E.CAPACITOR CH 6.3V 47U	F2H0J470A003
C6040	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	
C6041	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	
C6042	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C6044	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	

Ref. No.	Part No.	Part Name & Description	Remarks
C6045	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6056	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C6057	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	
C6058	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	
D301	MA111	DIODE	
D401	1SS388	DIODE	
D402	1SS388	DIODE	
D403	MA111	DIODE	
D1002	MA111	DIODE	
D1003	MA111	DIODE	
D1004	B0ADEJ000013	SWITCHING DIODE	B0ADEJ000014
D1009	02DZ22Y	DIODE	
D1015	EC10QS03L12	DIODE	
D1020	MA111	DIODE	
D1602	02DZ16Y	DIODE	
D1604	02DZ16Y	DIODE	
D1701	MA111	DIODE	
D1801	MA111	DIODE	
D1802	1SS388	DIODE	
D1803	MA132WK	DIODE	
D3201	MA111	DIODE	
D3210	MA133	DIODE	
D3302	MA111	DIODE	
D3303	MA111	DIODE	
D3305	MA111	DIODE	
D6002	1SS388	DIODE	
D6004	MA111	DIODE	
D6005	1SS388	DIODE	
D6010	B0ADEJ000011	SWITCHING DIODE	B0ADEJ000012
D6016	MA133	DIODE	
D6020	1SS388	DIODE	
D6099	1SS388	DIODE	
D6201	MA111	DIODE	
FP601	VJS3971B027	CONNECTOR (FEMALE) 27P	
FP701	VJS3319B021	CONNECTOR (FEMALE) 21P	
FP1001	VJS3931B010	CONNECTOR (FEMALE) 10P	
FP2001	VJS3931B019	CONNECTOR (FEMALE) 19P	
FP2002	VJS4241B007W	CONNECTOR (FEMALE) 7P	
FP4001	VJS3931B009	CONNECTOR (FEMALE) 9P	
FP4002	VJS3931B016	CONNECTOR (FEMALE) 16P	
FP5001	VJS2959B013	CONNECTOR (FEMALE) 13P	
FP6001	VJS3931B021	CONNECTOR (FEMALE) 21P	
FP6002	VJS3930B013	CONNECTOR (FEMALE) 13P	
FP6004	VJS3930B016	CONNECTOR (FEMALE) 16P	
IC301	C1AB00001338	IC	
IC302	C8269	IC	C5ZBZ0000005
IC304	C1AB00001328	IC	
IC305	XC62FP1802MR	IC	C0CBAAB00018
IC306	S817A18ANB	IC	
IC308	S817A33ANB	IC	
IC309	4C2973-32	IC	
IC315	MN31121SA	IC	
IC401	T74VHC08FS	IC	
IC402	TC7SH04FU	IC	

Ref. No.	Part No.	Part Name & Description	Remarks
IC405	TC7W14FU	IC	
IC407	S817A18ANB	IC	
IC601	MM1166AF	IC	
IC701	UPD16878GS	IC	
IC706	NJM2115V	IC	
IC711	NJM2143R	IC	
IC1001	BA9706K	IC	C0DBAZZ00012
IC2001	C0GBG0000015	IC	
IC3201	M52374VP	IC	
IC3301	AN3502FAQ	IC	
IC3302	TL8850AF	IC	
IC3303	TC7W14FU	IC	
IC3304	TC7S32FU	IC	
IC3305	TC7SH08FU	IC	
IC3401	XC62FP3102PR	IC	C0CBABC00089
IC3402	TC7W74FU	IC	
IC3403	TC7SH08FU	IC	
IC3451	C2DBHF000021	IC	
IC3452	LC32V4265T	IC	C3ABKG000058
IC3453	ADM3202ARU-R	IC	C0ZBZ0000275
IC3454	D65443GAJ02	IC	C1ZBZ0001650
IC3458	NJM2407R	IC	
IC3460	XC62FP3102PR	IC	C0CBABC00089
IC3501	C1AB00001163	IC	C1AB00001162
IC3502	C1AB00001161	IC	C1AB00001160
IC4001	AN12998A-V	IC	
IC5001	AN3355FHP	IC	
IC6002	S3514AEFSTB	IC	C1ZBZ0001483
IC6003	MN103004KMB	IC	
IC6008	AK6416AM	IC	C3EBGG000003
IC6009	S80825ANNP	IC	C0EBE0000089
IC6011	XC62FP3002PR	IC	C0CBABC00061
L301	VLQ0426J1R8	COIL 1.8UH	G1C1R8J00007
L302	VLQ0910K100	COIL 10UH	G1C100KA0019
L305	VLQ0910K100	COIL 10UH	G1C100KA0019
L311	VLQ0909J220	COIL 22UH	G1C220JA0010
L312	VLQ0909J220	COIL 22UH	G1C220JA0010
L313	VLQ0909J220	COIL 22UH	G1C220JA0010
L314	VLQ0909J220	COIL 22UH	G1C220JA0010
L317	ELJFA390JB	CHIP INDUCTOR 39UH	
L402	VLQ0909J680	COIL 68UH	G1C680J00006
L403	VLQ0909J330	COIL 33UH	G1C330JA0010
L703	VLQ0319K100	COIL 10UH	G1C100K00023
L1001	VLQ0900M4R7	COIL 4.7UH	
L1002	VLQ0827M220	COIL 22UH	
L1003	VLQ0900M4R7	COIL 4.7UH	
L1004	VLQ0319K100	COIL 10UH	G1C100K00023
L1005	VLQ0900M4R7	COIL 4.7UH	
L1006	VLQ0910K100	COIL 10UH	G1C100KA0019
L1007	VLQ0827M470	COIL 47UH	
L1008	VLQ0319M4R7	COIL 4.7UH	G1C4R7M00013
L1010	VLQ0910K100	COIL 10UH	G1C100KA0019
L1011	VLQ0910K101	COIL 100UH	G1C101K00021
L1014	VLQ0319K100	COIL 10UH	G1C100K00023

Ref. No.	Part No.	Part Name & Description	Remarks
L1015	ELJPA470KB	COIL 47UH	
L1061	VLQ0827M330	COIL 33UH	
L1062	VLQ0827M330	COIL 33UH	
L1801	VLQ0910K100	COIL 10UH	G1C100KA0019
L3001	ELJFA820JB	CHIP INDUCTOR 82UH	
L3005	ELJFA121JB	CHIP INDUCTOR 120UH	
L3102	VLQ0163J8R2	COIL 8.2UH	G1C8R2J00002
L3111	VLQ0910K470	COIL 47UH	G1C470KA0019
L3112	ELJFA121JB	CHIP INDUCTOR 120UH	
L3113	ELJFA390JB	CHIP INDUCTOR 39UH	
L3201	VLQ0910K470	COIL 47UH	G1C470KA0019
L3202	ELJFA270JB	CHIP INDUCTOR 27UH	
L3203	ELJFA181JB	CHIP INDUCTOR 180UH	
L3204	ELJFA390JB	CHIP INDUCTOR 39UH	
L3301	ELJFA390JB	CHIP INDUCTOR 39UH	
L3302	ELJFA120JB	CHIP INDUCTOR 12UH	
L3303	VLQ0909J220	COIL 22UH	G1C220JA0010
L3304	VLQ0910K470	COIL 47UH	G1C470KA0019
L3305	VLQ0910K470	COIL 47UH	G1C470KA0019
L3306	VLQ0910K470	COIL 47UH	G1C470KA0019
L3307	VLQ0910K470	COIL 47UH	G1C470KA0019
L3308	ELJFA820JB	CHIP INDUCTOR 82UH	
L3309	VLQ0163J471	COIL 470UH	G1C471J00002
L3310	ELJFA680JB	CHIP INDUCTOR 68UH	
L3501	VLQ0910K100	COIL 10UH	G1C100KA0019
L4001	VLQ0319K101	COIL 100UH	G1C101K00022
L4002	VLQ0319K101	COIL 100UH	G1C101K00022
L4003	VLQ0319K101	COIL 100UH	G1C101K00022
L4004	VLQ0319K101	COIL 100UH	G1C101K00022
L5001	VLQ0910K470	COIL 47UH	G1C470KA0019
L5002	VLQ0910K470	COIL 47UH	G1C470KA0019
L5003	VLQ0910K470	COIL 47UH	G1C470KA0019
L5004	VLQ0910K470	COIL 47UH	G1C470KA0019
LB304	VLP0175	COIL	J0JCC0000060
LB305	VLP0175	COIL	J0JCC0000060
LB306	VLP0175	COIL	J0JCC0000060
LB307	VLP0175	COIL	J0JCC0000060
LB3401	VLP0175	COIL	J0JCC0000060
LB3450	VLP0175	COIL	J0JCC0000060
LB3460	VLP0175	COIL	J0JCC0000060
LB3461	VLP0153	COIL	
LB3462	VLP0153	COIL	
LB5001	VLP0319A241	COIL	
LB5002	VLP0319A241	COIL	
LB5003	VLP0319A241	COIL	
LB5004	VLP0319A241	COIL	
PP301	VJP3358A012	CONNECTOR (MALE) 12P	
PP3001	VJP3359B040	CONNECTOR (MALE) 40P	
PS1003	VJS4005B006	CONNECTOR (FEMALE) 6P	
PS3509	VJS4005B006	CONNECTOR (FEMALE) 6P	
Q301	2SC4627	TRANSISTOR	
Q303	HN1B04FUGRR	TRANSISTOR	B1HFCFE00001
Q304	2SA1832FY	TRANSISTOR	
Q305	2SA1832FY	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q306	HN1A01FUYR	TRANSISTOR	B1HDCFA00001
Q307	2SA1832FY	TRANSISTOR	
Q308	HN1B04FUGRR	TRANSISTOR	B1HFCFE00001
Q310	2SC4738FY	TRANSISTOR	
Q401	2SA1832FY	TRANSISTOR	
Q402	2SA1832FY	TRANSISTOR	
Q403	2SA1832FY	TRANSISTOR	
Q410	HN1A01FUYR	TRANSISTOR	B1HDCFA00001
Q411	2SC4738FY	TRANSISTOR	
Q601	HN1B04FUGRR	TRANSISTOR	B1HFCFE00001
Q605	2SB1424	TRANSISTOR	
Q606	2SC4738FY	TRANSISTOR	
Q704	2SC2712GR	TRANSISTOR	
Q780	B1ABMD000004	TRANSISTOR	
Q781	2SA1832FY	TRANSISTOR	
Q782	2SA1036	TRANSISTOR	
Q1001	2SB1424	TRANSISTOR	
Q1002	2SC4738FY	TRANSISTOR	
Q1003	MPL1	TRANSISTOR	
Q1004	2SD2210	TRANSISTOR	
Q1006	2SA1832FY	TRANSISTOR	
Q1007	2SC4944YR	TRANSISTOR	B1HBCFD00001
Q1010	2SA1832FY	TRANSISTOR	
Q1061	MPL1	TRANSISTOR	
Q1062	MPL1	TRANSISTOR	
Q1801	2SC4738FY	TRANSISTOR	
Q1802	2SC4738FY	TRANSISTOR	
Q1803	2SA1873YL	TRANSISTOR	B1HDCFA00002
Q1804	2SA1832FY	TRANSISTOR	
Q1806	HN1B04FUGRR	TRANSISTOR	B1HFCFE00001
Q1807	2SC4738FY	TRANSISTOR	
Q1808	2SA1873YL	TRANSISTOR	B1HDCFA00002
Q1809	2SC4738FY	TRANSISTOR	
Q1810	2SA1873YL	TRANSISTOR	B1HDCFA00002
Q1811	2SC4738FY	TRANSISTOR	
Q1812	2SC4738FY	TRANSISTOR	
Q1813	2SA1832FY	TRANSISTOR	
Q1814	2SC4944YR	TRANSISTOR	B1HBCFD00001
Q3114	2SC4627	TRANSISTOR	
Q3201	2SC4627	TRANSISTOR	
Q3202	2SC4738FY	TRANSISTOR	
Q3301	HN1C01FUYR	TRANSISTOR	B1HBCFA00001
Q3302	2SA1832FY	TRANSISTOR	
Q3303	2SC4627	TRANSISTOR	
Q3304	2SC4627	TRANSISTOR	
Q3501	2SC4627	TRANSISTOR	
Q3502	2SC4738FY	TRANSISTOR	
Q4005	2SC4617HR	TRANSISTOR	
Q4006	2SD602A-R	TRANSISTOR	
Q4007	2SB1219	TRANSISTOR	
Q4008	2SC4617HR	TRANSISTOR	
Q4009	XP4501	TRANSISTOR-TRANSISTOR	
Q5001	XN4501	TRANSISTOR-RESISTOR	
Q5002	XN4501	TRANSISTOR-RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q5003	2SA812	TRANSISTOR	
Q6001	2SC3295A	TRANSISTOR	
Q6002	2SA1832FY	TRANSISTOR	
Q6003	2SC4738FY	TRANSISTOR	
Q6004	2SC4738FY	TRANSISTOR	
Q6006	2SC4944YR	TRANSISTOR	B1HBCFD00001
QR401	RN2103F	TRANSISTOR-RESISTOR	
QR402	RN2107F	TRANSISTOR-RESISTOR	
QR403	RN2103F	TRANSISTOR-RESISTOR	
QR404	RN2103F	TRANSISTOR-RESISTOR	
QR405	RN1104F	TRANSISTOR-RESISTOR	
QR406	RN1102F	TRANSISTOR-RESISTOR	
QR407	RN1111F	TRANSISTOR-RESISTOR	
QR409	RN1104F	TRANSISTOR-RESISTOR	
QR410	RN1104F	TRANSISTOR-RESISTOR	
QR701	RN1102F	TRANSISTOR-RESISTOR	
QR782	RN1103F	TRANSISTOR-RESISTOR	
QR1001	RN2102F	TRANSISTOR-RESISTOR	
QR1002	RN2102F	TRANSISTOR-RESISTOR	
QR1003	RN2103F	TRANSISTOR-RESISTOR	
QR1005	RN1112F	TRANSISTOR-RESISTOR	
QR1061	RN2111F	TRANSISTOR-RESISTOR	
QR1701	RN2111F	TRANSISTOR-RESISTOR	
QR1703	RN1104F	TRANSISTOR-RESISTOR	
QR1704	RN1104F	TRANSISTOR-RESISTOR	
QR1801	UN2130X	TRANSISTOR-RESISTOR	
QR1802	RN2103F	TRANSISTOR-RESISTOR	
QR3001	UN2130X	TRANSISTOR-RESISTOR	
QR3002	RN1103F	TRANSISTOR-RESISTOR	
QR3201	RN2103F	TRANSISTOR-RESISTOR	
QR3202	RN1104F	TRANSISTOR-RESISTOR	
QR3203	RN1104F	TRANSISTOR-RESISTOR	
QR3204	RN2103F	TRANSISTOR-RESISTOR	
QR3205	RN2103F	TRANSISTOR-RESISTOR	
QR3206	RN1104F	TRANSISTOR-RESISTOR	
QR3301	RN1104F	TRANSISTOR-RESISTOR	
QR3302	RN1104F	TRANSISTOR-RESISTOR	
QR3305	RN1104F	TRANSISTOR-RESISTOR	
QR3306	RN1104F	TRANSISTOR-RESISTOR	
QR3307	RN1104F	TRANSISTOR-RESISTOR	
QR3308	RN2103F	TRANSISTOR-RESISTOR	
QR3309	RN1104F	TRANSISTOR-RESISTOR	
QR3310	RN1104F	TRANSISTOR-RESISTOR	
QR3311	RN1103F	TRANSISTOR-RESISTOR	
QR3314	RN1104F	TRANSISTOR-RESISTOR	
QR3315	RN1104F	TRANSISTOR-RESISTOR	
QR4001	RN1111F	TRANSISTOR-RESISTOR	
QR4002	RN1111F	TRANSISTOR-RESISTOR	
QR4003	RN1111F	TRANSISTOR-RESISTOR	
QR4004	RN1103F	TRANSISTOR-RESISTOR	
QR4005	RN2103F	TRANSISTOR-RESISTOR	
QR4006	RN1103F	TRANSISTOR-RESISTOR	
QR4008	RN1102F	TRANSISTOR-RESISTOR	
QR6003	RN1711R	TRANSISTOR-RESISTOR	B1GFCFJA0004

Ref. No.	Part No.	Part Name & Description	Remarks
QR6004	RN1711R	TRANSISTOR-RESISTOR	B1GFCFJA0004
QR6005	RN2103F	TRANSISTOR-RESISTOR	
QR6007	RN1102F	TRANSISTOR-RESISTOR	
QR6009	RN1113F	TRANSISTOR-RESISTOR	
QR6013	RN2111F	TRANSISTOR-RESISTOR	
QR6014	RN1111F	TRANSISTOR-RESISTOR	
QR6050	RN1704R	TRANSISTOR-RESISTOR	B1GFCFNN0011
QR6801	RN2111F	TRANSISTOR-RESISTOR	
R219	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	
R301	ERJ3RBD622	M.RESISTOR CH 1/16W 6.2K	
R302	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	
R303	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R304	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	
R305	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	
R306	ERJ3GEYJ150	M.RESISTOR CH 1/16W 15	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R308	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R309	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R310	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R311	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R312	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R313	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R315	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R316	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R319	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R320	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R321	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R322	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R323	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R324	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R325	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R326	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R327	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R328	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R329	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R330	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R331	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R332	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R333	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R334	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R335	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R338	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R339	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R340	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R341	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R342	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R343	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R344	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R345	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R346	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R347	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R348	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	
R349	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	

Ref. No.	Part No.	Part Name & Description	Remarks
R352	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R353	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R354	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R355	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R356	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R357	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R358	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R359	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R360	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R361	ERJ3RBD221	M.RESISTOR CH 1/16W 220	
R362	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	
R363	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R364	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	
R366	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R367	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	
R369	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R370	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	
R371	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R372	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R373	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R374	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R375	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R376	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R377	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R378	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R380	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R381	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R384	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R385	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R386	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R387	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R389	D1BB47020003	CHIP RESISTOR	
R390	D1BB91020002	CHIP RESISTOR	
R391	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R392	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	
R393	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R394	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R395	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R396	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R397	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R398	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R399	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R400	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R401	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	
R402	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R404	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R405	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R406	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R407	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R408	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R409	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R410	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R411	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R413	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	

Ref. No.	Part No.	Part Name & Description	Remarks
R414	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R415	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R416	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R417	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	ERJ3GEYJ105A
R418	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R420	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R421	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R425	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R426	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R427	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R428	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R430	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R431	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R432	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R433	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R434	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R435	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R436	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R437	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R440	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R441	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R442	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R443	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R444	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R601	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R602	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R603	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R604	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R605	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R621	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R623	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	
R625	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R626	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	
R630	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R631	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R701	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	
R702	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	
R703	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R704	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	
R705	ERJ3GEYJ4R7	M.RESISTOR CH 1/16W 4.7	
R706	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R707	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R708	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R709	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R711	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R712	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R713	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R714	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R715	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R716	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R717	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	
R718	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R722	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R723	D1BB2200A010	CHIP RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R726	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R727	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R728	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R729	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R730	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	
R731	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R732	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R733	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	
R734	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	
R735	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	
R736	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	
R737	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	
R738	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	
R740	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	
R743	D1BB75010002	CHIP RESISTOR	
R745	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R761	D1BB2201A010	CHIP RESISTOR	
R780	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	
R781	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R782	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R783	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	
R784	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R785	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R1001	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	
R1002	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	
R1004	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R1005	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	
R1006	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	
R1007	ERJ8GEYJ330	M.RESISTOR CH 1/8W 33	
R1008	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	
R1009	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	
R1012	ERJ6RHD1872	M.RESISTOR CH 1/10W 18.7K	
R1013	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	
R1014	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	
R1015	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	
R1016	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	
R1017	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1018	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R1019	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R1020	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R1021	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	
R1022	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	
R1023	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R1024	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	
R1025	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R1035	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	
R1038	D1BB33000002	CHIP RESISTOR	
R1039	D1BB5600A010	CHIP RESISTOR	
R1040	D1BB10000002	CHIP RESISTOR	
R1041	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	
R1042	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	
R1043	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	
R1044	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R1052	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	

Ref. No.	Part No.	Part Name & Description	Remarks
R1053	D1BB10000002	CHIP RESISTOR	
R1057	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R1063	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R1064	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R1065	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R1066	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R1067	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R1068	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R1069	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R1071	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1072	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R1073	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R1085	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1086	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1087	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1601	VSF0092	FUSE	⚠ D9ZZ00000066
R1602	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	
R1603	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	
R1699	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1705	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R1706	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	
R1707	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R1710	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R1801	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R1802	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	
R1803	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	
R1804	D1BB39010002	CHIP RESISTOR	
R1805	ERJ6RED514	M.RESISTOR CH 1/10W 510K	
R1806	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R1807	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R1808	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	
R1809	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R1810	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R1812	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R1813	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R1814	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R1819	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R1823	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R1824	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R1825	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R1826	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R1827	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R1828	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R1829	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	
R1830	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	
R1831	D1BB18010002	CHIP RESISTOR	
R1832	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R1833	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	
R1834	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R1836	ERJ6RED274	M.RESISTOR CH 1/10W 270K	
R1837	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R1838	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	
R1839	D1BB3900A010	CHIP RESISTOR	
R1840	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
R1841	ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	
R2001	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R2002	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R2004	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R2005	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	
R2006	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R2007	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	
R2008	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R2009	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R2010	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R2011	ERJ8RQJR27	M.RESISTOR CH 1/8W 0.27	ERJ8RQJR27V
R2012	ERJ8RQJR22	M.RESISTOR CH 1/8W 0.22	
R2013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R2014	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R2015	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R2016	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R2017	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R2018	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R2019	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R2023	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R3001	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	
R3002	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3003	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3004	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R3005	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R3017	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R3101	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R3110	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R3111	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R3112	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R3113	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R3114	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3115	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3116	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R3117	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3118	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3120	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	
R3201	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3202	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R3205	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3206	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R3207	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R3208	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R3209	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3210	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3211	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R3213	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R3216	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3217	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	
R3218	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R3301	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R3303	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3304	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R3305	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	

Ref. No.	Part No.	Part Name & Description	Remarks
R3306	D1BB3600A010	CHIP RESISTOR	
R3307	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3308	D1BB33010002	CHIP RESISTOR	
R3309	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	
R3310	D1BB30000002	CHIP RESISTOR	
R3311	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R3312	D1BB33010002	CHIP RESISTOR	
R3313	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R3314	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	
R3317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3318	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R3319	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3321	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R3322	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R3323	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	
R3324	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3325	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3326	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R3327	D1BB2400A010	CHIP RESISTOR	
R3328	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R3329	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3330	D1BB1001A010	CHIP RESISTOR	
R3331	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	
R3332	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R3333	D1BB1201A010	CHIP RESISTOR	
R3334	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R3335	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R3336	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3337	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3340	D1BB5601A010	CHIP RESISTOR	
R3341	D1BB33010002	CHIP RESISTOR	
R3342	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	
R3352	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R3401	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R3402	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R3403	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R3404	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R3405	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3451	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R3452	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	
R3453	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R3454	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	
R3455	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R3456	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R3457	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R3458	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	
R3460	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R3461	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R3465	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R3466	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	
R3467	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R3501	D1BB62R0A010	CHIP RESISTOR	
R3502	D1BB62R0A010	CHIP RESISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
R3503	D1BB62R0A010	CHIP RESISTOR	
R3504	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R3505	D1BB1001A010	CHIP RESISTOR	
R3506	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	
R3507	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	
R3508	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	
R3509	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	
R3510	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	
R3511	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R3512	D1BB68000002	CHIP RESISTOR	
R3513	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R3514	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	
R3551	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	
R4001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	
R4002	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	
R4003	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	
R4006	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4009	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R4010	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4011	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R4012	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	
R4013	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R4014	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4015	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R4016	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R4017	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R4018	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4019	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4020	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R4021	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	
R4023	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R4024	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4025	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	
R4028	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	
R4029	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R4030	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	
R4031	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R4032	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R4033	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R4034	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	
R4038	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4039	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4040	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4041	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	
R4042	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R4043	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4044	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	
R4045	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	
R4046	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	
R4047	ERJ3GEYJ185	M.RESISTOR CH 1/16W 1.8M	
R4048	ERJ3RBD431	M.RESISTOR CH 1/16W 430	
R4049	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R4050	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R4051	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	

Ref. No.	Part No.	Part Name & Description	Remarks
R4052	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	
R4053	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R4054	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	
R4055	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	
R4056	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4057	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	
R4058	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	
R4059	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4060	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R4061	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R4062	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4063	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R4064	ERJ3GEYJ2R2	M.RESISTOR CH 1/16W 2.2	
R4065	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	
R4066	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R4067	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R4068	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4070	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4071	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	
R4073	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4075	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R4076	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4077	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R4079	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4080	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	
R4081	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4082	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R4083	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R4087	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R4093	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	
R4095	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R4097	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R5001	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	
R5002	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	
R5003	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	
R5004	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R5005	D1BB1102A010	CHIP RESISTOR	
R5007	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R5008	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7	
R5009	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	
R5010	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	
R6001	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R6002	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R6003	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R6004	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6005	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R6006	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6007	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6008	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6009	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6010	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	
R6011	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6012	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6013	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A

Ref. No.	Part No.	Part Name & Description	Remarks
R6014	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6017	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R6018	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6019	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6020	ERJ3GEYG333	M.RESISTOR CH 1/16W 33K	
R6021	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6022	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6023	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6024	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6025	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	
R6026	ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	
R6027	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6028	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	ERJ3GEYJ105A
R6029	ERJ3GEYJ304	M.RESISTOR CH 1/16W 300K	
R6031	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	ERJ3GEYJ105A
R6032	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R6033	ERJ3GEYJ820	M.RESISTOR CH 1/16W 82	
R6035	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6036	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6038	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R6039	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R6040	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R6041	ERJ8GEYJ120	M.RESISTOR CH 1/8W 12	
R6042	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R6043	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6044	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6046	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	ERJ3GEYJ105A
R6048	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6051	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6052	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6053	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6054	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R6056	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6057	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6058	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	
R6059	ERJ3RBD433	M.RESISTOR CH 1/16W 43K	
R6060	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R6061	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	ERJ3GEYJ105A
R6062	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6063	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6064	ERJ3RBD363	M.RESISTOR CH 1/16W 36K	
R6065	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6066	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R6067	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6068	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6069	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R6070	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	
R6073	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6074	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6075	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6076	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6077	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6078	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A

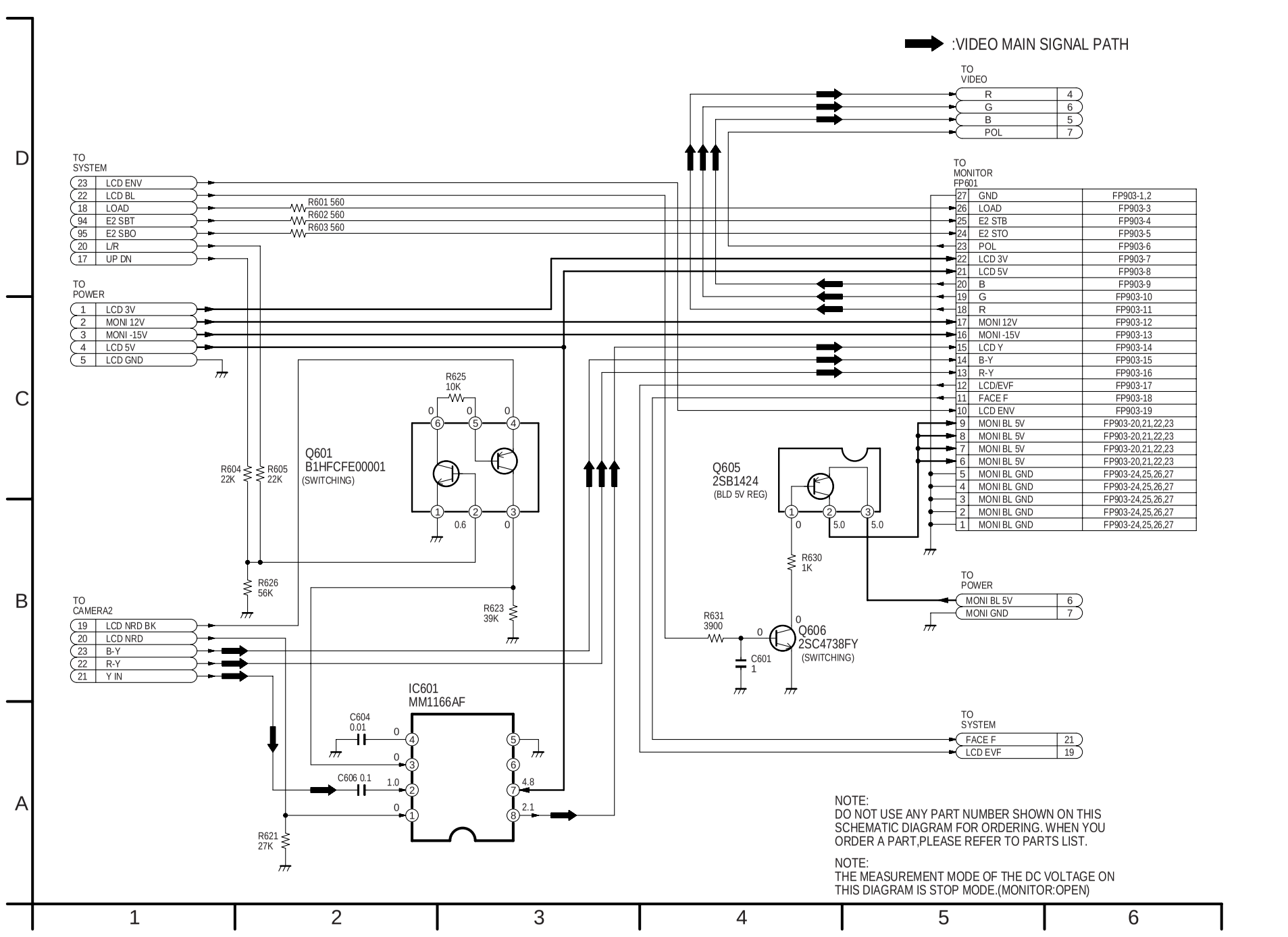
Ref. No.	Part No.	Part Name & Description	Remarks
R6079	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6080	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	
R6082	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6083	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6084	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6085	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R6086	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	
R6087	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6088	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6089	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6090	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6091	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6092	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R6093	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R6094	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R6095	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	
R6096	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R6098	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	
R6100	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6101	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R6104	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6105	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R6106	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	
R6107	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	
R6108	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6109	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R6110	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	
R6111	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	
R6112	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R6113	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6114	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6116	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6117	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R6118	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6119	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6120	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A
R6121	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6122	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	
R6123	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R6131	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R6132	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6133	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R6211	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	
R6801	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	
R6802	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
T1001	VTP0534	TRANSFORMER	G5DYA0000025
T4001	VLQ0905	OSCILLATOR COIL	G1ZZ00000046
X301	VSX1100	CRYSTAL OSCILLATOR	H0J450500002
X6001	VSX0917	CRYSTAL OSCILLATOR	H0J160500026
X6002	VSX0601	CRYSTAL OSCILLATOR	H0J327200051
■	VEP28283A	EVF C.B.A.	(RTL)
C801	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C802	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	

[illegible]	[illegible]	[illegible]	

Ref. No.	Part No.	Part Name & Description	Remarks
C803	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C804	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C805	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	
C806	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C807	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C808	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C809	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	
C810	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C814	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C815	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C816	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C817	ECUX1E223KBV	C.CAPACITOR CH 25V 0.022U	
C818	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
C819	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
FP802	VJS4365B020	CONNECTOR (FEMALE) 20P	
FP803	VJS4297B010	CONNECTOR (FEMALE) 10P	
IC801	C0HBA0000070	IC	
LB801	VLP0175	COIL	J0JCC0000060
R802	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	
R803	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	
R804	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	
R805	ERJ3GEYJ112	M.RESISTOR CH 1/16W 1.1K	
R807	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	
R809	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
R810	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	
R811	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
■	VEP26250B	MONITOR C.B.A.	(RTL) NV-VS50
■	VEP26250A	MONITOR C.B.A.	(RTL) NV-VS70
C901	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C902	F1K3D150A003	CHIP CERAMIC CAPACITOR	
C903	F3F0J1060005	TANTALUM CAPACITOR	
C905	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	
C906	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C907	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C908	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C909	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C910	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C911	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	
C914	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C915	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C916	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C917	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C918	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C919	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C920	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C921	ECST1AY106Z	T.CAPACITOR CH 10V 10U	
C926	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C927	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
C929	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	
C930	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C931	ECUM1A105KBN	C.CAPACITOR CH 10V 1U	
C932	ECUM1E105KBM	C.CAPACITOR CH 25V 1U	

Ref. No.	Part No.	Part Name & Description	Remarks
C935	F3F0J1060005	TANTALUM CAPACITOR	
C936	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	
C944	ECHU1H393JB	P.CAPACITOR CH 50V 0.039U	
C945	F3F0J1060005	TANTALUM CAPACITOR	
C946	F1K3D120A003	CHIP CERAMIC CAPACITOR	NV-VS50
C946	F1K3D180A003	CHIP CERAMIC CAPACITOR	NV-VS70
C949	ECST1EX475Z	T.CAPACITOR CH 25V 4.7U	
C950	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	ECUV1C105ZFN
C952	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	
FP902	VJS3931B006	CONNECTOR (FEMALE) 6P	
FP903	VJS3971B027	CONNECTOR (FEMALE) 27P	
FP905	VJS3320B024	CONNECTOR (FEMALE) 24P	K1MN24B00036
IC901	AN2547FHQ	IC	
IC902	NJM3414AV	IC	
L901	VLQ0827M820	COIL 82UH	
L902	VLQ0910K100	COIL 10UH	G1C100KA0019
L903	VLQ0319K100	COIL 10UH	G1C100K00023
L904	VLQ0910K470	COIL 47UH	G1C470KA0019
L907	VLQ0910K470	COIL 47UH	G1C470KA0019
LB902	VLP0175	COIL	J0JCC0000060
Q901	HN1C01FUYR	TRANSISTOR	B1HBCFA00001
Q902	2SD1328-R	TRANSISTOR	
Q904	B1ABMD000004	TRANSISTOR	
Q905	B1ABMD000004	TRANSISTOR	
QR902	RN2102F	TRANSISTOR-RESISTOR	
R901	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R902	ERJ3GEYJ561	M.RESISTOR CH 1/16W 560	ERJ3GEYJ561A
R903	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R905	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R906	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	
R908	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R909	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R912	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	NV-VS50
R912	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	NV-VS70
R913	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A NV-VS70
R914	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	ERJ3GEYJ104A
R915	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	
R917	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	
R918	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	
R919	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	
R920	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	
R921	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	
R922	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	ERJ3GEYJ103A
R924	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	
R925	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	
R926	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	
R931	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	ERJ3GEYJ473A NV-VS50
R932	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	
R933	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	
R946	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R947	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
R950	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	
R951	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	

Ref. No.	Part No.	Part Name & Description	Remarks
R959	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	
T901	ETJ11K95BM	CHIP TRANSFORMER	
■	VEK9252	MIC UNIT	
D6801	BR2202S-20B1	DIODE	B3AAA0000429
D6802	PH310	DIODE	
D6803	SLR738AV50AC	LED	B3EA00000029
D6804	SLR738AV50AC	LED	B3EA00000029
FP6801	VJS3498A016	CONNECTOR (FEMALE) 16P	
IC6801	PNA4611M05VT	IR RECEIVER	
JK6801	VJJ0642	4-PIN JACK	K2HC104B0004
P6802	VJP3331B002	CONNECTOR (MALE) 2P	
SW6801	EVQ6QF02K	SWITCH	
■	VEP22304A	CCD FLEX. CARD C.B.A.	(RTL)
C292	ECUM1C105KBN	C.CAPACITOR CH 10V 1U	
C295	ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	
D291	02DZ16Y	DIODE	
PS291	VJS3500A012	CONNECTOR (FEMALE) 12P	
Q291	2SC2295	TRANSISTOR	
R291	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	
R292	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	
R293	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	
		MISCELLANEOUS	
.	VJB22304	FLEX. CARD	
■	VEK8902	LENS FLEX. CARD C.B.A.	(RTL)
		MISCELLANEOUS	
.	HT-120B	HALL SENSOR	B4ABA0000003
.	VSP1083	DETECTION SWITCH	K0L1BA000015
■	VEK8903	SENSOR FLEX. CARD	(RTL)
IC991	DN8797MS	HALL IC	
IC992	DN8797MS	HALL IC	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TO VIDEO
R 4
G 6
B 5
POL 7
TO SYSTEM
23 LCD ENV
22 LCD BL
18 LOAD
94 E2 SBT
95 E2 SBO
20 L/R
17 UP DN
R601 560
R602 560
R603 560
TO POWER
1 LCD 3V
2 MONI 12V
3 MONI -15V
4 LCD 5V
5 LCD GND
TO MONITOR FP601
27 GND FP903-1,2
26 LOAD FP903-3
25 E2 STB FP903-4
24 E2 STO FP903-5
23 POL FP903-6
22 LCD 3V FP903-7
21 LCD 5V FP903-8
20 B FP903-9
19 G FP903-10
18 R FP903-11
17 MONI 12V FP903-12
16 MONI -15V FP903-13
15 LCD Y FP903-14
14 B-Y FP903-15
13 R-Y FP903-16
12 LCD/EVF FP903-17
11 FACE F FP903-18
10 LCD ENV FP903-19
9 MONI BL 5V FP903-20,21,22,23
8 MONI BL 5V FP903-20,21,22,23
7 MONI BL 5V FP903-20,21,22,23
6 MONI BL 5V FP903-20,21,22,23
5 MONI BL GND FP903-24,25,26,27
4 MONI BL GND FP903-24,25,26,27
3 MONI BL GND FP903-24,25,26,27
2 MONI BL GND FP903-24,25,26,27
1 MONI BL GND FP903-24,25,26,27
R625 10K
Q601 B1HFCFE00001 (SWITCHING)
R604 22K
R605 22K
R626 56K
R623 39K
Q605 2SB1424 (BLD 5V REG)
R630 1K
R631 3900
Q606 2SC4738FY (SWITCHING)
C601 1
TO POWER
MONI BL 5V 6
MONI GND 7
TO CAMERA2
19 LCD NRD BK
20 LCD NRD
23 B-Y
22 R-Y
21 Y IN
IC601 MM1166AF
C604 0.01
C606 0.1
R621 27K
TO SYSTEM
FACE F 21
LCD EVF 19
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(MONITOR:OPEN)
D
C
B
A
1
2
3
4
5
6

TO POWER
1 NOREG
2 AF GND

TO VIDEO
9 IRIS OPEN

TO CAMERA2
7 REG 4.8V
10 REG 3V
12 CAM GND

TO SYSTEM
107 AF DR EX Z
100 AF DR RST
101 AF DR 4M
102 AF DR SBT
103 AF DR SBO
104 AF DR CS
105 AF DR VD
106 AF DR EX F
99 O LUX SW

CL702
L703 G1C100K00023
R717 56
C713 1
R706 100K
C705 0.1
C712 0.1
R703 100K
C711 F2H1C470A001
R701 4.7
R702 4.7

RESET OSCOUT OSCIN SCLK SDATA LATCH VD EXTZ B2 FBB B1 VM2 A2 FBA A1 VM1 EXTF EXP3 PGND

H BRIDGE 2ch
H BRIDGE 1ch
EXTOUT SELECTOR
1/N
PULSE GENERATER
EVR1 EVR2 EVR1 EVR2
CURRENT SET CURRENT SET
OSC
SELECTOR
FILTER FILTER FILTER FILTER
X2
SERIAL-PARARELLE DECODER
H BRIDGE 2ch
H BRIDGE 1ch

LGND COSC FILA FILB FILC FILD VREF VDD VM3 D2 FBD D1 VM4 C2 FBC C1 EXP0 EXP1 EXP2

C701 100P C704 0.1 C706 0.1 C707 0.1 C708 0.1
R704 4.7
R705 4.7
IC701
UPD16878GS
(MOTOR DRIVE)

R712 10K
C709 0.01
R714 1K

R708 47K
R711 47K

R709 10K
R716 1K
R718 22K
C702 0.22
C719 1000P
R743 D1BB75010002
Q704
2SC2712GR
(AMP)
IC706
NJM2115V
VCC GND
R745 10K
R722 1500
C721 6800P
R723 D1BB2200A010
R761 D1BB2201A010
R726 680
C703 0.01
IC711
NJM2143R
VCC GND
R736 680K
C723 220P
R713 2200
R735 12K
R727 27K
R738 150K
R734 12K
R729 33K
R737 680K
R740 120K
R728 10K
R730 8200
R733 560K
R732 27K
R731 68K

Q782
2SA1036
(SWITCHING NOREG)
R715 10K

R784 2200
R781 1K
Q781
2SA1832FY
(LED DRIVE)
R782 1200
R707 100
QR701
RN1102F
(LED DRIVE)
Q780
B1ABMD000004
(LED DRIVE)
R780 15
R785 2200
QR782
RN1103F
(INV.)
R783 15

TO LENS FLEX. FP701
LED CONT 21
Z ENC 20
F ENC VCC 19
F ENC 18
ZM T4 17
ZM T1 16
ZM T2 15
ZM T3 14
O LUX SW 13
FM T4 12
FM T1 11
FM T2 10
FM T3 9
ALC MAIN(-) 8
ALC CTL(-) 7
HALL IN(+) 6
HALL OUT(-) 5
HALL IN(-) 4
HALL OUT(+) 3
ALC MAIN(+) 2
ALC CTL(+) 1

TO VIDEO
FNO 8

TO CAMERA2
PWM(A) 8
V REF (L) 9
V REF (H) 11

TO CAMERA1
HALL BIAS 35
HALL GAIN 36

TO SYSTEM
Z ENC 109
LED CTL 111
ABSF 110
O LUX CTL 108

TO AUDIO
IR NOREG 11
IR LED OUT 12

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

Main C.B.A.

Integrated Circuit

IC301	D-5	C
IC302	E-2	F
IC304	E-4	C
IC305	E-4	F
IC306	E-4	C
IC308	E-2	F
IC309	D-2	F
IC315	E-6	C
IC401	D-4	F
IC402	E-3	F
IC405	C-4	C
IC407	D-2	F
IC601	B-2	F
IC701	D-2	F
IC706	E-1	F
IC711	D-1	F
IC1001	A-5	F
IC2001	E-3	F
IC3201	B-2	F
IC3301	B-4	F
IC3302	B-4	C
IC3303	C-6	F
IC3304	C-1	C
IC3305	C-1	C
IC3401	C-4	F
IC3402	E-4	F
IC3403	D-5	F
IC3451	D-4	C
IC3452	D-4	F
IC3453	B-1	F
IC3454	E-3	C
IC3458	D-4	F
IC3460	C-4	F
IC3501	D-1	C
IC3502	D-7	F
IC4001	C-2	F
IC5001	B-3	F
IC6002	D-3	C
IC6003	D-6	F
IC6008	E-3	C
IC6009	C-5	F
IC6011	C-6	F

Transisor

Q301	E-6	C
Q303	E-2	F
Q304	F-2	F
Q305	D-3	F
Q306	C-3	F
Q307	C-3	F
Q308	C-2	F
Q310	C-3	F
Q401	C-3	F
Q402	C-3	F
Q403	D-3	F
Q410	D-3	F
Q411	D-4	F
Q601	A-1	F
Q605	B-1	F
Q606	A-2	F
Q704	D-2	F
Q780	B-1	F
Q781	C-1	F
Q782	B-1	F
Q1001	A-7	F
Q1002	B-3	C
Q1003	B-6	F
Q1004	A-6	F
Q1006	B-5	F
Q1007	B-5	F
Q1010	B-5	F
Q1061	B-7	F
Q1062	B-6	F
Q1801	B-3	C
Q1802	B-3	C
Q1803	B-5	F
Q1804	C-5	F
Q1806	C-3	C
Q1807	B-5	F
Q1808	B-5	F
Q1809	B-5	F
Q1810	B-5	F
Q1811	B-5	F
Q1812	B-6	F
Q1813	C-5	F
Q1814	C-5	F
Q3114	C-5	C
Q3201	A-6	C
Q3202	A-6	C
Q3301	B-5	C
Q3302	C-4	F
Q3303	C-4	F
Q3304	C-4	F
Q3501	D-7	F
Q3502	D-7	F
Q4005	C-6	C
Q4006	D-1	F
Q4007	B-6	C
Q4008	B-6	C
Q4009	D-1	F
Q5001	A-3	F
Q5002	A-3	F
Q5003	A-3	F
Q6001	D-2	C
Q6002	E-4	F
Q6003	C-6	F
Q6004	D-2	C
Q6006	D-2	C

Transistor & Resist

QR401	D-4	F
QR402	D-4	F
QR403	D-4	F
QR404	F-2	F
QR405	E-2	F
QR406	D-3	F
QR407	C-4	C
QR409	E-4	F
QR410	D-4	F
QR701	E-6	C
QR782	C-1	F
QR1001	B-5	F
QR1002	E-3	C
QR1003	B-3	C
QR1005	B-6	F
QR1061	B-3	C
QR1701	E-2	C
QR1703	E-3	C
QR1704	E-2	C
QR1801	B-3	C
QR1802	C-5	F
QR3001	C-4	F
QR3002	B-4	F
QR3201	B-3	F
QR3202	B-3	F
QR3203	B-3	F
QR3204	A-6	C
QR3205	A-6	C
QR3206	A-6	C
QR3301	B-4	C
QR3302	C-5	C
QR3305	C-4	F
QR3306	B-3	F
QR3307	B-3	F
QR3308	B-4	C
QR3309	B-4	C
QR3310	B-4	C
QR3311	C-4	F
QR3314	A-4	F
QR3315	B-4	C
QR4001	B-2	F
QR4002	B-2	F
QR4003	B-2	F
QR4004	C-6	C
QR4005	D-1	F
QR4006	C-6	C
QR4008	D-1	F
QR6003	E-6	F
QR6004	E-5	F
QR6005	C-6	F
QR6007	C-1	C
QR6009	D-5	F
QR6013	C-2	C
QR6014	D-6	F
QR6050	C-5	F
QR6801	B-6	C

Connector

FP601	A-7	C
FP701	E-7	C
FP1001	E-3	C
FP2001	E-5	C
FP2002	C-7	C
FP4001	D-7	C
FP4002	B-7	C
FP5001	A-5	C
FP6001	E-1	C
FP6002	F-5	C
FP6004	E-4	C
PP301	E-6	C
PP3001	A-4	C
PS1003	B-7	F
PS3509	D-7	F

Test Point

CKA1	E-3	C
CKA2	E-3	C
CKA3	E-3	C
CKA4	E-3	C
CKA5	E-3	C
CKA6	E-3	C
CKA7	E-2	C
CKA8	E-2	C
CKA9	E-3	C
CKA10	E-2	C
CKB3	B-1	C
CKB6	C-1	C
CKC1	C-7	C
CKC2	C-7	C
CKC3	C-7	C
CKC4	C-7	C
CKC5	C-7	C
CKC6	C-7	C
CKC7	C-7	C
CKD2	E-2	C
CKD3	E-1	C
CKD5	E-2	C
CKD6	E-1	C
CKD7	E-2	C
CKD8	E-2	C
CKD9	E-2	C
CKD10	E-2	C
CKD11	E-1	C
CKD12	E-1	C
CKD14	E-1	C
CKD17	E-1	C
CKD18	E-1	C
CKD19	E-1	C
CKD21	E-1	C
CKE1	A-5	C
CKE5	A-5	C
CKE6	A-5	C
CKE7	B-5	C
CKE9	B-5	C
CKE10	A-5	C
CKE11	A-5	C
CKE12	B-5	C
CKF2	E-5	C
CKF3	E-4	C
CKF4	E-5	C
CKF6	E-5	C
CKF7	F-4	C
CKF11	E-5	C
CKF12	E-4	C
CKG1	E-6	C
CKG2	E-6	C
CKG3	E-6	C
CKG4	E-6	C
CKG5	E-6	C
CKG6	E-6	C
CKG7	E-6	C
CKG8	E-6	C
CKG9	E-6	C
CKG10	E-6	C
CKG11	E-6	C
CKG12	F-6	C
CKJ1	C-1	C
CKJ2	C-1	C
CKJ4	D-1	C
CKJ6	D-1	C
CKK2	F-6	C
CKK3	E-6	C
CKK4	F-6	C
CKK5	E-6	C
CKK6	E-5	C
CKK8	E-6	C
CKK9	E-5	C
CKK11	F-6	C
CKK13	E-5	C
CKK14	F-5	C
CKK16	E-5	C
CKK18	E-5	C
CKK19	E-5	C
CKP1	E-6	C
CKP2	D-6	C
CKP3	D-6	C
CKP4	D-6	C
CKP5	D-6	C
CKP6	D-6	C
CKP9	D-7	C
CKP10	D-7	C
CKP11	E-6	C
CKP12	E-6	C
CKP13	E-6	C
CKP14	E-6	C
CKP15	E-6	C
CKP16	E-6	C
CKP17	E-6	C
CKP18	E-7	C
CKP19	E-6	C
CKP20	E-6	C
CKP21	E-6	C
CKQ1	E-5	C
CKQ2	E-4	C
CKQ3	E-4	C
CKQ4	E-4	C
CKQ6	E-4	C
CKQ7	E-4	C
CKQ9	E-4	C
CKQ10	E-4	C
CKQ12	E-4	C
CKQ14	E-4	C
CKQ16	E-4	C
CKS5	A-7	C
CKS9	A-7	C
CKS10	A-7	C
CKS11	A-6	C
CKS12	A-7	C
CKS13	A-6	C
CKS14	A-7	C
CKS15	A-6	C
CKS16	A-7	C
CKS17	A-6	C
CKS18	A-7	C
CKS19	A-6	C
CKS20	B-7	C
CKS21	A-6	C
CKS22	B-7	C
CKS23	B-7	C
CKS24	B-7	C
CKS25	B-6	C
CKS26	B-7	C
CKS27	A-7	C
CKW2	D-6	C
CKW3	C-6	C
CKW4	C-6	C
CKW5	D-6	C
CKW7	D-7	C
CKW9	C-6	C
CKY4	A-4	C
CKY5	B-4	C
CKY8	A-4	C
CKY9	A-4	C
CKY13	A-4	C
CKY14	A-4	C
CKY18	A-3	C
CKY19	A-3	C
CKY20	A-3	C
CKY22	A-3	C
CKY23	A-3	C
CKY27	A-3	C
CKY31	A-4	C
CKY32	A-3	C
CKY35	A-3	C
CKY40	B-5	C
CKZ1	B-7	C
CKZ2	B-7	C
CKZ3	B-7	C
CKZ4	B-7	C
CKZ5	B-7	C
CKZ6	B-7	C
CKZ7	B-7	C
CKZ10	B-7	C
CKZ11	C-7	C
CKZ13	B-7	C
CKZ14	B-7	C
CKZ15	C-7	C
CKZ16	B-6	C
CL401	E-5	C
CL407	D-6	C
CL702	D-6	C
CL1001	C-3	C
CL1012	C-2	C
CL1601	B-2	C
CL1602	B-2	C
CL1603	B-2	C
CL1604	B-2	C
CL1605	B-2	C
CL3003	B-5	C
CL3004	B-6	C
CL3007	B-6	C
CL3201	A-6	C
CL3301	C-4	C
CL3302	B-3	C
CL3303	C-4	C
CL3304	C-3	C
CL3305	B-4	C
CL3307	E-4	F
CL3308	D-4	C
CL3309	E-4	F
CL3401	D-3	C
CL3501	D-1	C
CL3502	D-1	C
CL4002	C-6	C
CL4004	B-6	C
CL6001	E-2	C
CL6002	E-2	C
CL6003	E-3	C
CL6004	C-6	C
CL6005	E-2	C
CL6006	D-2	C
CL6007	D-2	C
CL6008	E-2	C
CL6009	D-6	C
CL6010	D-6	C
CL6011	B-1	C
CL6012	E-1	C
CL6013	D-6	C
CL6014	E-1	C
CL6015	C-2	C
CL6017	E-3	C
CL6018	D-2	C
CL6019	D-1	C
CL6020	C-2	C
CL6021	E-3	C
CL6022	D-3	C
CL6023	D-3	C
CL6024	E-2	C
CL6101	D-1	C
CL6102	E-4	C
CL6206	E-2	C
CL6207	E-2	C
CL6208	E-2	C
TL1001	B-2	C
TL1002	B-2	C
TL1003	C-2	C

Diode

D301	E-5	C
D401	C-4	C
D402	C-4	C
D403	D-4	F
D1002	A-6	F
D1003	A-6	F
D1004	B-3	C
D1009	B-5	F
D1015	A-2	C
D1020	B-5	F
D1602	C-1	C
D1604	C-1	C
D1701	E-5	F
D1801	B-2	C
D1802	B-3	C
D1803	C-5	F
D3201	D-4	F
D3210	B-2	F
D3302	B-4	C
D3303	B-4	C
D3305	B-4	C
D6002	E-5	F
D6004	D-2	C
D6005	D-2	C
D6010	C-2	C
D6016	D-1	C
D6020	D-5	F
D6099	B-6	C
D6201	E-5	F

Coil

L301	E-3	F
L302	D-4	F
L305	E-2	F
L311	C-6	C
L312	C-3	F
L313	D-3	F
L314	C-5	C
L317	C-4	C
L402	D-3	F
L403	C-3	F
L703	D-2	F
L1001	B-1	C
L1002	A-1	C
L1003	C-2	C
L1004	C-6	F
L1005	C-3	C
L1006	B-5	F
L1007	B-2	C
L1008	B-6	F
L1010	B-5	F
L1011	B-5	F
L1014	C-6	F
L1015	B-6	F
L1061	B-1	C
L1062	B-2	C
L1801	C-5	F
L3001	B-3	F
L3005	B-3	F
L3102	B-6	C
L3111	C-5	C
L3112	B-6	C
L3113	C-5	C
L3201	B-2	F
L3202	A-2	F
L3203	A-2	F
L3204	B-2	F
L3301	B-4	F
L3302	B-4	C
L3303	B-4	C
L3304	B-4	C
L3305	C-4	F
L3306	C-3	C
L3307	C-3	C
L3308	A-4	F
L3309	A-4	F
L3310	A-4	F
L3501	D-6	F
L4001	C-2	F
L4002	B-2	F
L4003	B-6	C
L4004	D-2	F
L5001	B-5	C
L5002	B-5	C
L5003	B-5	C
L5004	B-5	C
LB304	E-4	F
LB305	D-4	F
LB306	D-4	F
LB307	E-4	C
LB3401	C-4	C
LB3450	C-5	F
LB3460	A-1	F
LB3461	B-1	F
LB3462	B-1	F
LB5001	A-3	F
LB5002	A-3	F
LB5003	A-3	F
LB5004	A-3	F

Transformer

T1001	A-2	C
T4001	D-6	C

Crystal Oscillator

X301	E-5	C
X6001	D-3	C
X6002	D-3	C

Capacitor

C301	E-3	F
C302	E-3	F
C303	E-3	F
C304	E-5	C
C305	E-6	C
C306	E-6	C
C307	E-6	C
C309	D-6	C
C310	E-2	F
C311	E-5	C
C312	E-5	C
C314	E-2	F
C317	E-2	F
C318	E-2	F
C319	E-2	F
C320	E-2	F
C321	E-2	F
C322	E-6	C
C325	E-2	F
C326	E-2	F
C328	E-2	F
C329	E-4	F
C330	E-4	F
C332	E-3	F
C333	E-4	F
C334	D-3	F
C335	C-4	C
C336	E-4	C
C339	D-3	F
C342	C-6	C
C344	C-3	F
C345	C-3	F
C346	C-5	C
C347	D-3	F
C348	C-5	C
C349	C-3	F
C350	C-5	C
C351	C-5	C
C352	D-3	F
C353	E-3	F
C354	D-2	F
C355	D-3	F
C356	E-4	F
C357	E-4	F
C359	D-2	F
C360	D-2	F
C362	E-2	F
C364	D-2	F
C365	C-5	C
C402	D-4	F
C403	C-4	C
C404	C-4	C
C405	E-4	C
C406	D-3	F
C408	E-3	F
C409	D-3	F
C410	D-3	F
C411	D-3	F
C412	C-3	F
C413	C-3	F
C414	D-2	F
C601	A-2	F
C604	B-2	F
C606	B-2	F
C701	D-2	F
C702	E-1	F
C703	D-1	F
C704	D-2	F
C705	D-6	C
C706	D-2	F
C707	D-6	C
C708	D-6	C
C709	D-2	F
C711	D-6	C
C712	D-6	C
C713	D-2	F
C719	E-1	F
C721	E-1	F
C723	D-1	F
C1001	B-1	F
C1001	B-1	C
C1003	A-6	F
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C1012	A-6	F
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C1030	B-3	C
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C1033	A-5	F
C1034	A-3	C
C1035	A-5	F
C1037	A-5	F
C1041	C-1	C
C1046	B-5	F
C1051	A-3	C
C1055	C-6	F
C1057	C-2	C
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C1066	B-6	F
C1071	A-6	F
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C1082	B-2	C
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C1603	B-1	C
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C1802	B-5	F
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C3207	A-2	F
C3208	B-2	F
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C3303	A-4	F
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C3455	D-5	F
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C3513	D-1	C
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C4065	C-2	F
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C5021	B-3	F
C5022	A-3	F
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C6042	C-5	F
C6044	C-6	F
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C6057	C-6	F
C6058	C-2	C

Resustir

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R302	F-2	F
R303	E-6	C
R304	E-6	C
R305	E-6	C
R306	E-6	C
R307	E-6	C
R308	E-5	C
R309	F-2	F
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R311	E-5	C
R312	E-2	F
R313	E-2	F
R315	E-2	F
R316	E-2	F
R319	E-4	F
R320	E-4	C
R321	E-4	C
R322	D-3	F
R323	D-3	F
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R329	C-3	F
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R332	C-3	F
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R335	E-3	F
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R366	E-3	F
R367	D-3	F
R369	D-2	F
R370	D-2	F
R371	D-3	F
R372	D-6	C
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R625	A-1	F
R626	A-2	F
R630	A-2	F
R631	B-2	F
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R733	D-1	F
R734	D-2	F
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R737	E-2	F
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R740	E-2	F
R743	E-7	C
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R781	C-1	F
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R1603	C-1	C
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R3207	B-2	F
R3208	B-6	C
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R3217	B-6	C
R3218	B-6	C
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R3309	B-5	F
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R4067	B-6	C
R4068	B-6	C
R4070	B-6	C
R4071	C-2	F
R4073	B-2	F
R4075	C-2	F
R4076	D-1	F
R4077	C-3	F
R4079	C-3	F
R4080	C-1	F
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R4093	C-1	F
R4095	C-1	F
R4097	C-6	C
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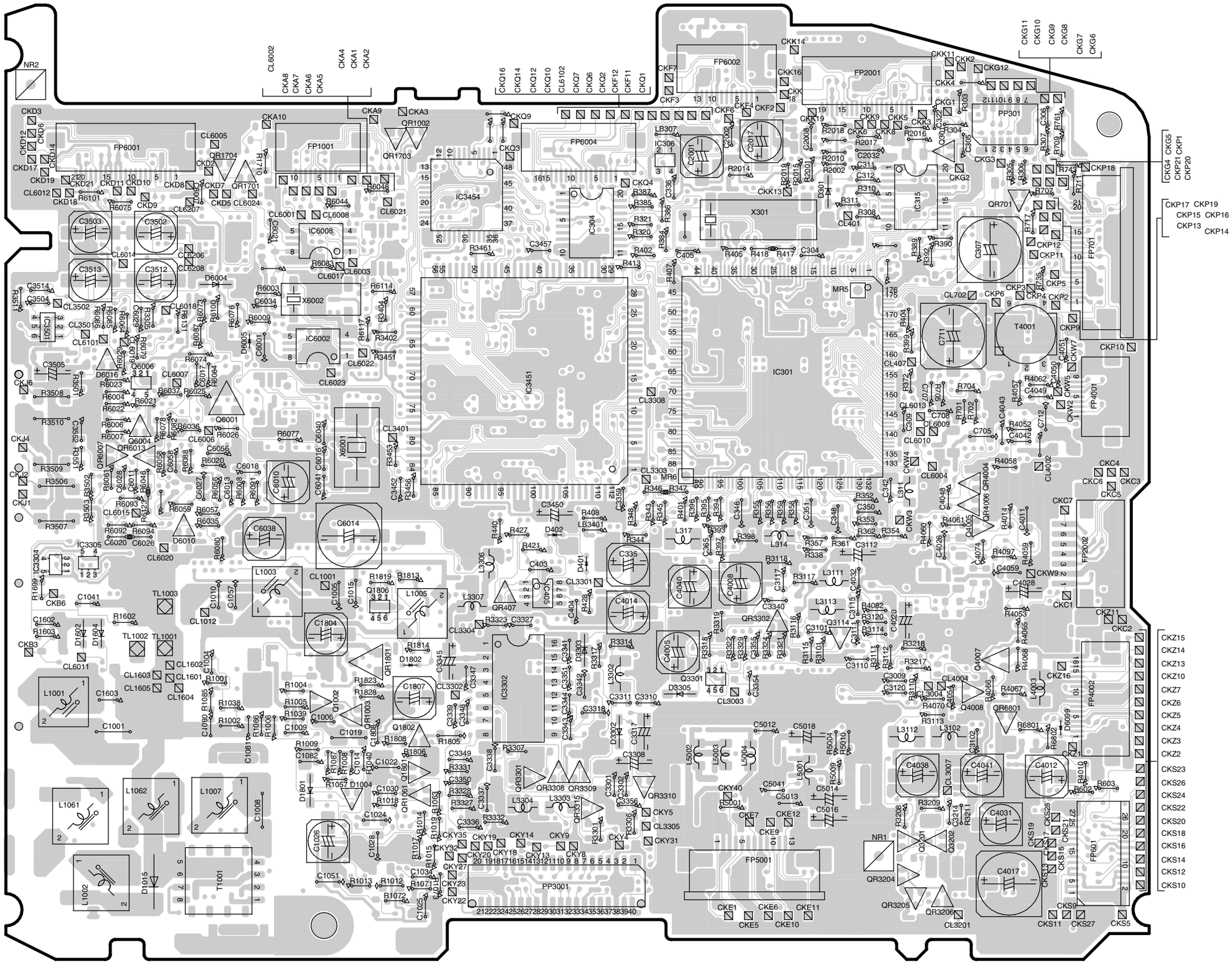
R5002	B-3	F
R5003	B-2	F
R5004	B-5	C
R5005	B-3	F
R5007	A-3	F
R5008	A-3	F
R5009	B-5	C
R5010	B-5	C
R6001	E-7	F
R6002	E-5	F
R6003	D-2	C
R6004	D-1	C
R6005	E-4	F
R6006	D-1	C
R6007	D-1	C
R6008	C-2	C
R6009	D-2	C
R6010	C-6	F
R6011	E-5	F
R6012	E-4	F
R6013	E-6	F
R6014	E-6	F
R6017	D-5	F
R6018	D-6	F
R6019	E-5	F
R6020	C-2	C
R6021	D-2	C
R6022	D-1	C
R6023	D-1	C
R6024	D-6	F
R6025	D-2	C
R6026	D-2	C
R6027	E-6	F
R6028	C-6	F
R6029	D-1	C
R6031	C-6	F
R6032	E-5	F
R6033	E-4	F
R6035	C-2	C
R6036	D-2	C
R6037	D-2	C
R6038	C-5	F
R6039	E-6	F
R6040	E-6	F
R6041	C-5	F
R6042	C-6	F
R6043	D-5	F
R6044	E-3	C
R6046	C-2	C
R6048	E-3	C
R6051	E-6	F
R6052	E-7	F
R6053	E-6	F
R6054	E-7	F
R6056	C-2	C
R6057	C-2	C
R6058	C-2	C
R6059	C-2	C
R6060	E-6	F
R6061	C-1	C
R6062	E-6	F
R6063	E-6	F
R6064	D-1	C
R6065	E-6	F
R6066	E-6	F
R6067	C-5	F
R6068	E-4	F
R6069	E-5	F
R6070	E-6	F
R6073	D-2	C
R6074	D-2	C
R6075	E-1	C
R6076	D-2	C
R6077	D-2	C
R6078	D-2	C
R6079	D-2	C
R6080	C-2	C
R6082	D-2	C
R6083	D-3	C
R6084	D-2	C
R6085	D-1	C
R6086	D-1	C
R6087	D-2	C
R6088	C-2	C
R6089	C-6	F
R6090	C-5	F
R6091	C-2	C
R6092	C-1	C
R6093	C-1	C
R6094	C-2	C
R6095	E-7	F
R6096	E-5	F
R6098	E-5	F
R6100	D-2	C
R6101	E-1	C
R6104	C-5	F
R6105	C-6	F
R6106	C-6	F
R6107	D-6	F
R6108	C-6	F
R6109	C-5	F
R6110	C-5	F
R6111	D-5	F
R6112	C-5	F
R6113	D-5	F
R6114	D-3	C
R6116	D-5	F
R6117	D-3	C
R6118	D-5	F
R6119	E-6	F
R6120	E-5	F
R6121	E-5	F
R6122	E-5	F
R6123	C-2	C
R6131	D-2	C
R6132	C-5	F
R6133	C-5	F
R6211	E-5	F
R6801	B-6	C
R6802	B-6	C

ADDRESS INFORMATION **C** CONPONENT SEIDE **F** FOIL SIDE

VEP23523C


NR2
FP6001
FP1001
FP6002
FP6004
FP2001
PP301
IC3454
IC6008
IC6002
IC3451
IC301
IC306
IC304
X301
X6002
X6001
IC3302
IC315
QR1002
QR1703
QR1704
QR1701
QR701
QR3302
QR3308
QR3309
QR3310
QR3315
QR407
QR4006
QR6013
QR6801
QR3204
QR3205
QR3206
T4001
T1001
C6014
C6010
C6038
C3503
C3502
C3513
C3512
C3505
C3457
C335
C4040
C4008
C4014
C4005
C4017
C711
C707
C712
C702
C4038
C4041
C4012
C3031
C3032
C3007
C3009
C3004
C3201
C3202
C3211
C3102
C3101
C3218
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C3120
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CL6005
CL6024
CL6207
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CL6015
CL6004
CL6010
CL6009
CL1001
CL1002
CL1003
CL1005
CL1012
CL3301
CL3302
CL3303
CL3304
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CL3003
CL3201
CL401
CL407
CL702
CL4004
CL3401
L3306
L3307
L3304
L3303
L3302
L317
L314
L3113
L3112
L3102
L4003
L4002
L5001
L5002
L5003
L5004
L1061
L1062
L1007
L1002
L3001
L3002
L3003
L3004
L3005
L3006
L3007
L3008
L3009
L3010
L3011
L3012
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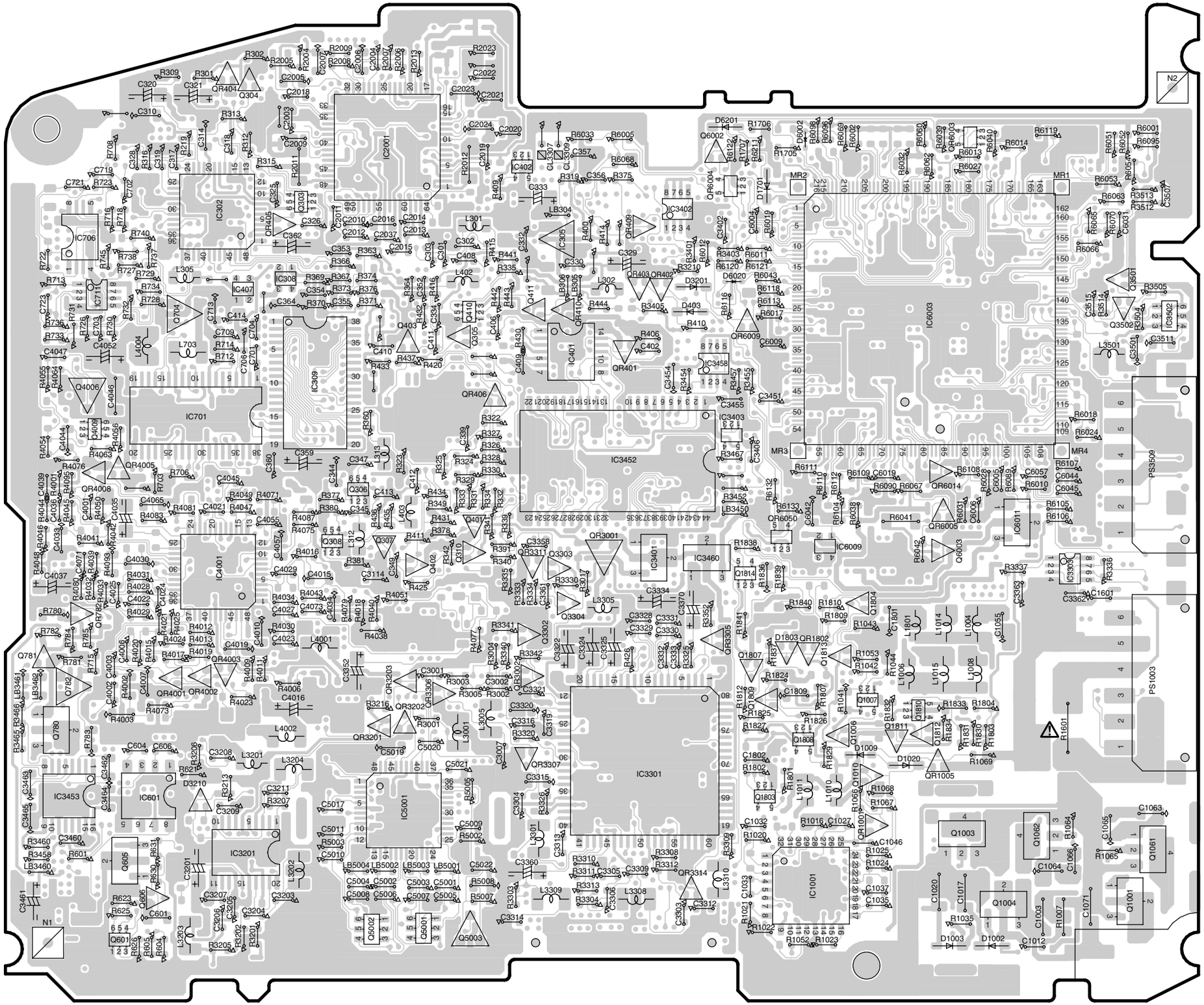
L3039
L3040

VEP23523C


IC2001
IC302
IC706
IC711
IC309
IC701
IC4001
IC3452
IC3403
IC3458
IC6003
IC3460
IC3401
IC6009
IC6011
IC3402
IC3301
IC5001
IC3453
IC601
IC3201
IC1001
Q4006
Q4008
Q4005
Q4003
Q4001
Q4002
Q3001
Q3002
Q3003
Q3004
Q3005
Q3006
Q3007
Q3008
Q3009
Q3010
Q3011
Q3012
Q3013
Q3014
Q3015
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Q3028
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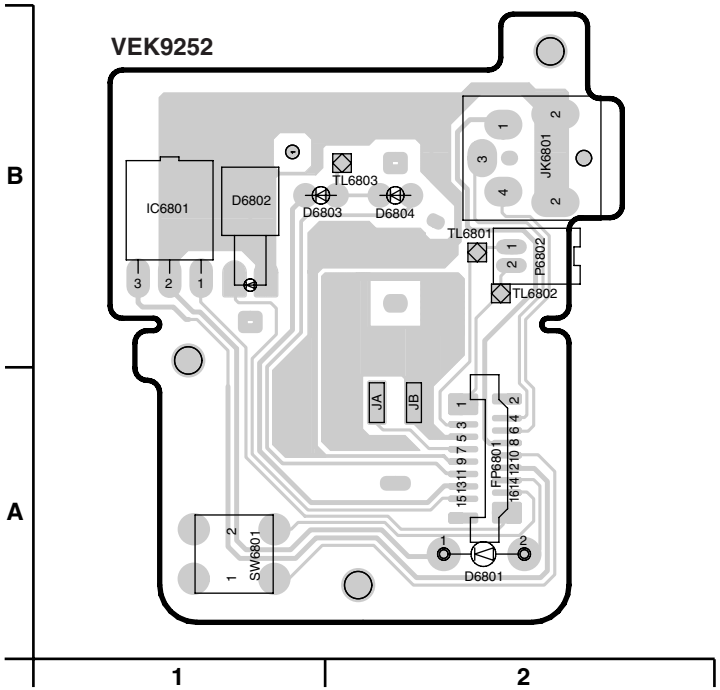
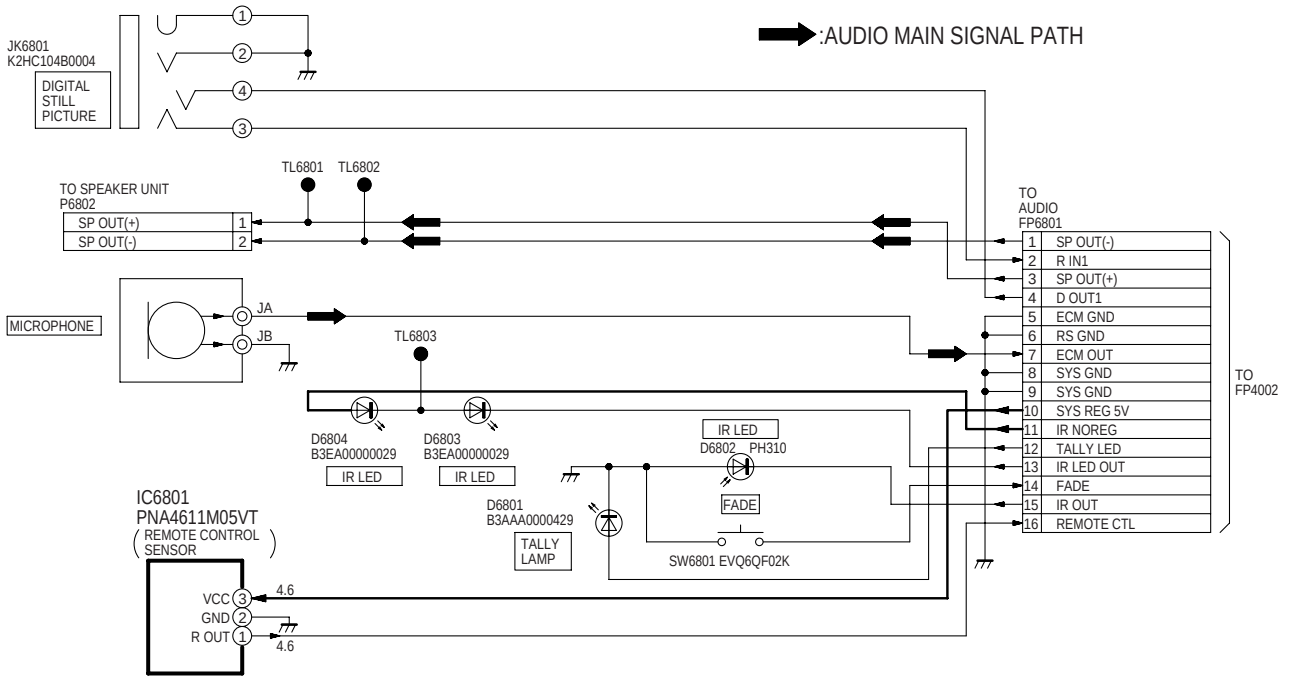
Q3039
Q3040

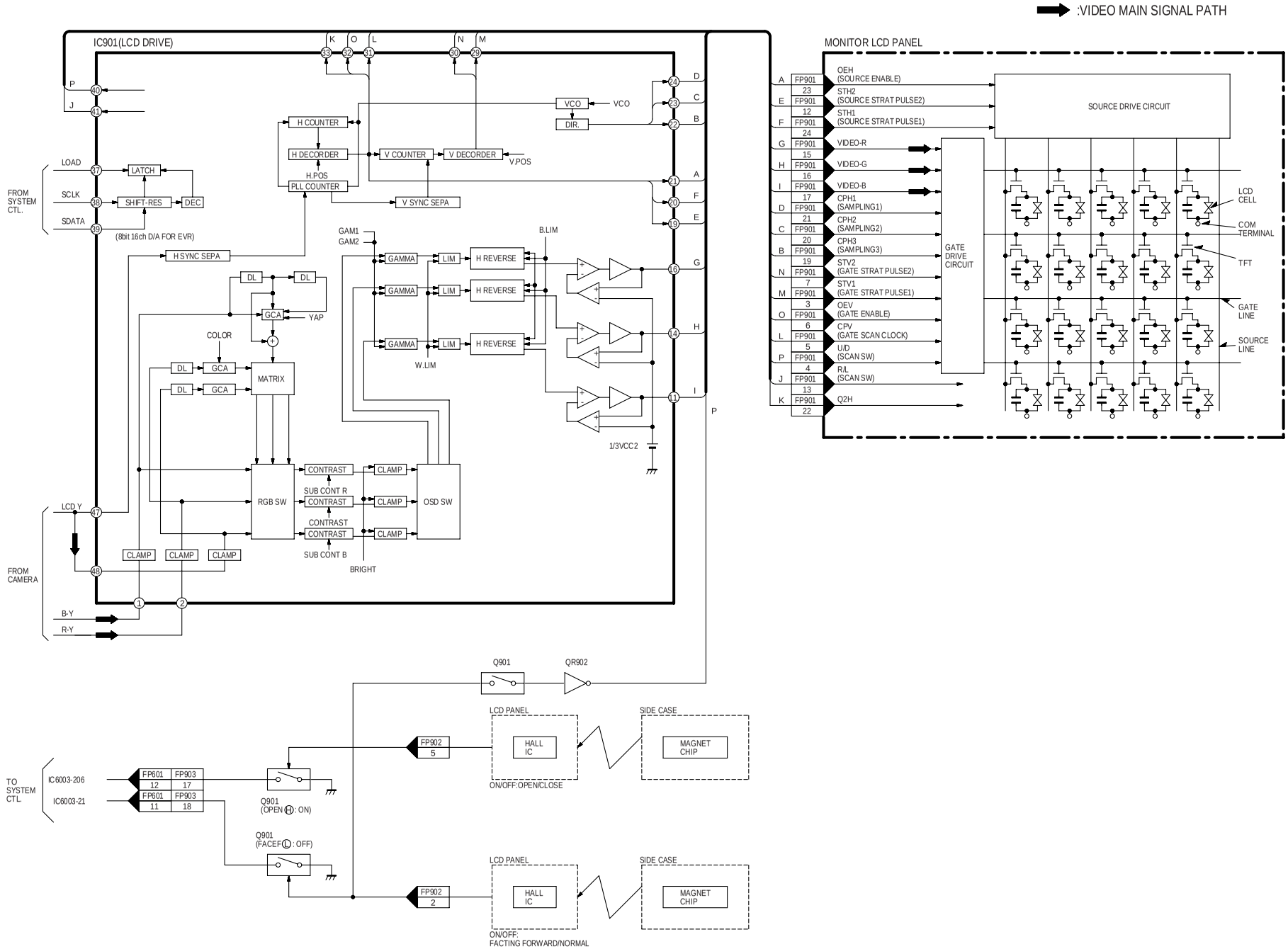

VEK9252
B
A
1
2
IC6801
D6802
TL6803
D6803
D6804
JK6801
TL6801
P6802
TL6802
JA
JB
FP6801
SW6801
D6801



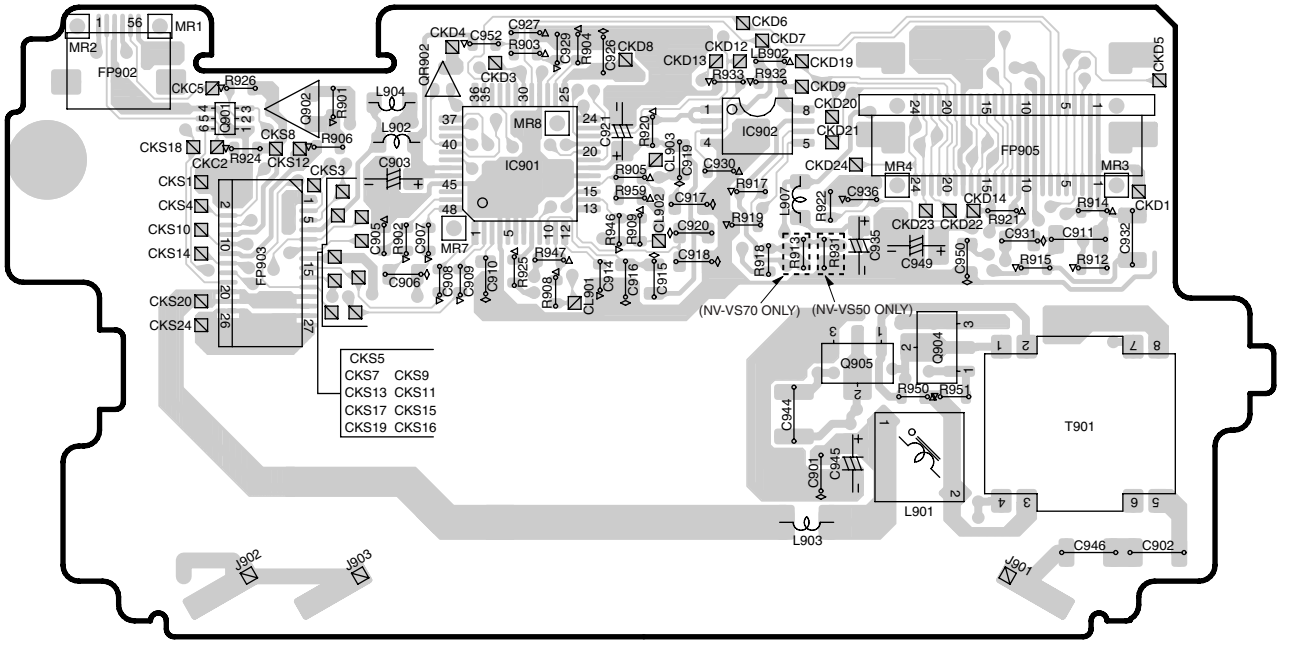
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER APART,PLEASE REFER TO PARS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.


:VIDEO MAIN SIGNAL PATH
IC901(LCD DRIVE)
MONITOR LCD PANEL
SOURCE DRIVE CIRCUIT
GATE DRIVE CIRCUIT
LCD CELL
COM TERMINAL
TFT
GATE LINE
SOURCE LINE
OEH (SOURCE ENABLE)
STH2 (SOURCE STRAT PULSE2)
STH1 (SOURCE STRAT PULSE1)
VIDEO-R
VIDEO-G
VIDEO-B
CPH1 (SAMPLING1)
CPH2 (SAMPLING2)
CPH3 (SAMPLING3)
STV2 (GATE STRAT PULSE2)
STV1 (GATE STRAT PULSE1)
OEV (GATE ENABLE)
CPV (GATE SCAN CLOCK)
U/D (SCAN SW)
R/L (SCAN SW)
Q2H
H COUNTER
H DECORDER
V COUNTER
V DECORDER
PLL COUNTER
V SYNC SEPA
H SYNC SEPA
VCO
DIR.
H.POS
V.POS
LATCH
SHIFT-RES
DEC
LOAD
SCLK
SDATA
FROM SYSTEM CTL.
(8bit 16ch D/A FOR EVR)
GAM1
GAM2
GAMMA
LIM
H REVERSE
B.LIM
W.LIM
1/3VCC2
DL
GCA
YAP
COLOR
MATRIX
CONTRAST
CLAMP
SUB CONT R
SUB CONT B
BRIGHT
RGB SW
OSD SW
LCD Y
FROM CAMERA
B-Y
R-Y
Q901
QR902
LCD PANEL
SIDE CASE
HALL IC
MAGNET CHIP
FP902
ON/OFF:OPEN/CLOSE
TO SYSTEM CTL.
IC6003-206
IC6003-21
FP601
FP903
Q901 (OPEN Ⓗ: ON)
Q901 (FACEF Ⓛ: OFF)
ON/OFF: FACTING FORWARD/NORMAL

VEP26250B:NV-VS50
VEP26250A:NV-VS70



C

B

A

1 2 3 4

:VIDEO MAIN SIGNAL PATH

TO LCD FP903

FP601-27	GND	1
FP601-27	GND	2
FP601-26	LOAD	3
FP601-25	E2 STB	4
FP601-24	E2 SBO	5
FP601-23	POL	6
FP601-22	LCD 3V	7
FP601-21	LCD 5V	8
FP601-20	B	9
FP601-19	G	10
FP601-18	R	11
FP601-17	MONI 12V	12
FP601-16	MONI -15V	13
FP601-15	LCD Y	14
FP601-14	B-Y	15
FP601-13	R-Y	16
FP601-12	LCD/EVF	17
FP601-11	FACE F	18
FP601-10	LCD ENV	19
FP601-6,7,8,9	MONI BL 5V	20
FP601-6,7,8,9	MONI BL 5V	21
FP601-6,7,8,9	MONI BL 5V	22
FP601-6,7,8,9	MONI BL 5V	23
FP601-1,2,3,4,5	MONI B GND	24
FP601-1,2,3,4,5	MONI B GND	25
FP601-1,2,3,4,5	MONI B GND	26
FP601-1,2,3,4,5	MONI B GND	27

R918 100
L904 47u
L907 47u
L902 10u
C935 F3F0J1060005
R921 15K
R922 10K
C936 0.01
C931 1
R914 100K
C932 1
C911 1
C949 25V4.7
R915 22
R917 22K
R919 20K
R912 560K:NV-VS70 330K:NV-VS50
R913 47K
(NV-VS70 ONLY)
C952 0.1
C927 0.1
C929 1500P
R903 15K
R904 10K
C926 1
QR902 RN2102F (AMP)
R931 47K
(NV-VS50 ONLY)

IC902 NJM3414AV
VCC
GND

R932 56K
C930 0.01
R933 100K
R920 10
C921 10V10
LB902 J0JCC0000060

Q902 2SD1328-R (REG.)
R901 10K
R906 4700

L901 82u
L903 10u
C901 1
C945 F3F0J1060005

C903 F3F0J1060005
C906 1
R902 560
C907 0.01
C905 680P

IC901 AN2547FHQ (LCD DRIVE)
C910 1
C908 0.01
C909 0.01
R925 68K
C914 0.1
C915 1
C916 1
C917 1
C918 1
C919 1
C920 1
R905 100
R959 680
R909 100
R946 680
C950 1
R947 680
R908 100
CL901
CL902
CL903

TO MONITOR LCD UNIT FP905

24	STH1
23	OEH
22	Q2H
21	CPH1
20	CPH2
19	CPH3
18	GND
17	VIDEO-B
16	VIDEO-G
15	VIDEO-R
14	VB
13	R/L
12	STH2
11	VEE
10	VCOM
9	VGG
8	DVDD
7	STV2
6	OEV
5	CPV
4	U/D
3	STV1
2	VSS
1	VGL

SENSOR FLEX.CARD (VEK8903)
IC992 DN8797MS (FACING FORWARD/ NORMAL)
IC991 DN8797MS (OPEN/ CLOSE)

FP902

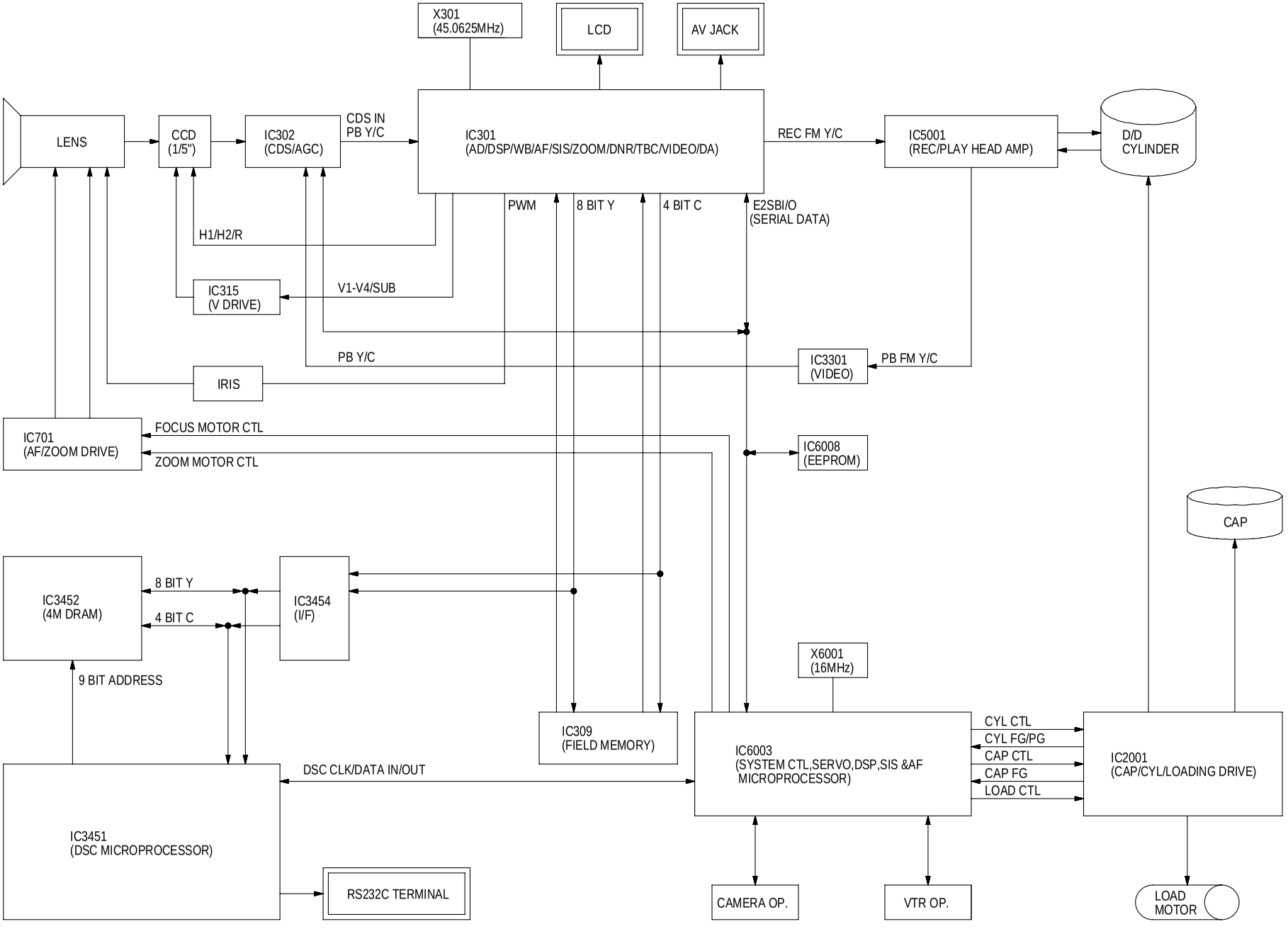
	FACE F VCC	1
L	FACE F	2
	FACE F GND	3
	OPEN VCC	4
H	OPEN	5
	OPEN GND	6

R924 5600
R926 5600
Q901 B1HBCFA00001 (INV.)

R951 2200
R950 2200
Q904 B1ABMD000004 (BACK LIGHT CONTROL)
Q905 B1ABMD000004 (BACK LIGHT CONTROL)
C944 0.039
T901 ETJ11K95BM
C902 F1K3D150A003
C946 18P:NV-VS70 12P:NV-VS50
BACK LIGHT UNIT

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(MONITOR:OPEN)


X301
(45.0625MHz)
LCD
AV JACK
LENS
CCD
(1/5")
IC302
(CDS/AGC)
CDS IN
PB Y/C
IC301
(AD/DSP/WB/AF/SIS/ZOOM/DNR/TBC/VIDEO/DA)
REC FM Y/C
IC5001
(REC/PLAY HEAD AMP)
D/D
CYLINDER
PWM
8 BIT Y
4 BIT C
E2SBI/O
(SERIAL DATA)
H1/H2/R
IC315
(V DRIVE)
V1-V4/SUB
PB Y/C
IC3301
(VIDEO)
PB FM Y/C
IRIS
IC701
(AF/ZOOM DRIVE)
FOCUS MOTOR CTL
ZOOM MOTOR CTL
IC6008
(EEPROM)
CAP
IC3452
(4M DRAM)
8 BIT Y
4 BIT C
IC3454
(I/F)
9 BIT ADDRESS
X6001
(16MHz)
IC309
(FIELD MEMORY)
IC6003
(SYSTEM CTL,SERVO,DSP,SIS &AF
MICROPROCESSOR)
CYL CTL
CYL FG/PG
CAP CTL
CAP FG
LOAD CTL
IC2001
(CAP/CYL/LOADING DRIVE)
DSC CLK/DATA IN/OUT
IC3451
(DSC MICROPROCESSOR)
RS232C TERMINAL
CAMERA OP.
VTR OP.
LOAD
MOTOR

TO SYSTEM
49 NOREG
56 BAT Ⓗ
96 V REF
51 NOREG GND
52 C.P ON Ⓗ
53 MONI CTL
54 EVF CTL
48 S REG 3V
97 CAP SW
55 REG 4.8V
65 BL CTL
50 P ON Ⓛ
98 LI BATT(+)
64 BATT T
63 BATT D

TO REAR CASE UNIT PS1003
BATT D 1
BATT T 2
BATT Ⓗ 3
DC IN 4
NOREG GND 5
LI BATT(+) 6

TO LCD
6 MONI BL 5V

TO SUB SERVO
8 CAP GND
7 CYL GND
9 LD GND

TO LCD
7 MONI GND

TO LENS DRIVE
2 AF GND

CL1601 CL1602 CL1603 CL1604 CL1605

R1699 1K
C1601 0.1
C1015 1
D1604 02DZ16Y
D1602 02DZ16Y
R1603 680K
C1602 0.1
R1602 120K
C1041 0.01
TL1002
R1601 ⚠ VSF0092
R1057 1800
D1801 MA111
D1004 B0ADEJ000013
L1005 4.7u
L1002 22u
L1001 4.7u
C1001 2.2
C1071 1
C1024 1
R1013 47K
R1012 18.7K
D1015 EC10QS03L12
C1003 2.2
C1004 1000P
R1001 8200
R1085 1K
C1080 0.047
R1038 D1BB33000002
R1002 2400
Q1001 2SB1424 (SWITCHING 4.8V)
6.4 4.9 6.9
L1003 4.7u
L1015 ELJPA470KB
CL1001
L1007 47u
R1063 10K
C1005 1
C1008 2.2
C1009 1500P
R1005 4700
2.3
R1086 1K
C1081 0.047
R1039 D1BB5600A010
R1006 2700
1.7
QR1061 RN2111F (BUFFER)

R1025 22K
C1603 1000P
R1024 47
C1037 470P
D1020 MA111
D1009 02DZ22Y
R1069 100K
C1019 0.33
C1035 1000P
IC1001 C0DBAZZ00012 (SWITCHING REGURATOR)
CTL1 CTL2 IN3+ IN3- FB3 DTC OX3 OX3
VCC REFFERENCE REGULATOR VREF
ERROR AMPLIFIER ERROR AMPLIFIER
VE3 OUT3 VCC VSS VE1 OUT1 DTC1 OUT2
R1023 1800
R1022 22
R1072 100K
PWM COMPARATOR PWM COMPARATOR
LATCH SCP R FF S
CT RT SCP IN1+ IN1- FB1
TRAIANGLE WAVE OSCILLATOR
ERROR AMPLIFIER
IN2+ IN2- FB2 OY2 OX2 OY1 OX1 VE2
R1020 150
C1033 1000P
C1034 1000P
R1073 100
R1021 33
C1032 1000P
R1019 3300
R1071 1K

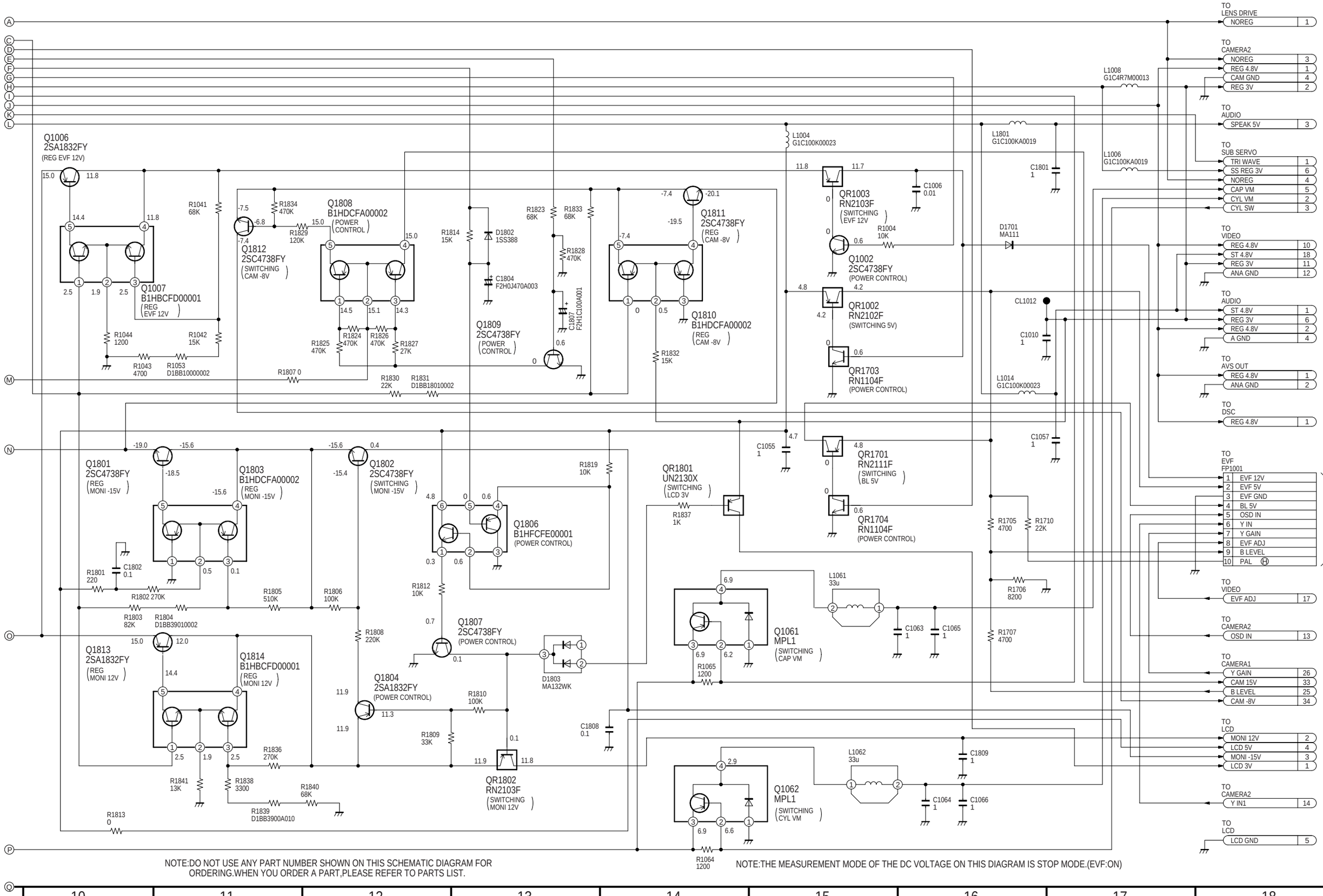
Q1004 2SD2210 (POWER CONTROL)
0.3 7.0
R1040 D1BB10000002
C1014 2200P
L1010 G1C100KA0019
R1009 1500
R1008 18K
R1087 1K
C1082 0.01

T1001 G5DYA0000025
R1007 33
C1012 1000P
D1002 MA111
C1017 25V1
R1035 47
L1011 G1C101K00021
D1003 MA111
C1020 0.33
C1022 0.1

Q1003 MPL1 (SWITCHING 3V)
3.3 6.9 6.6

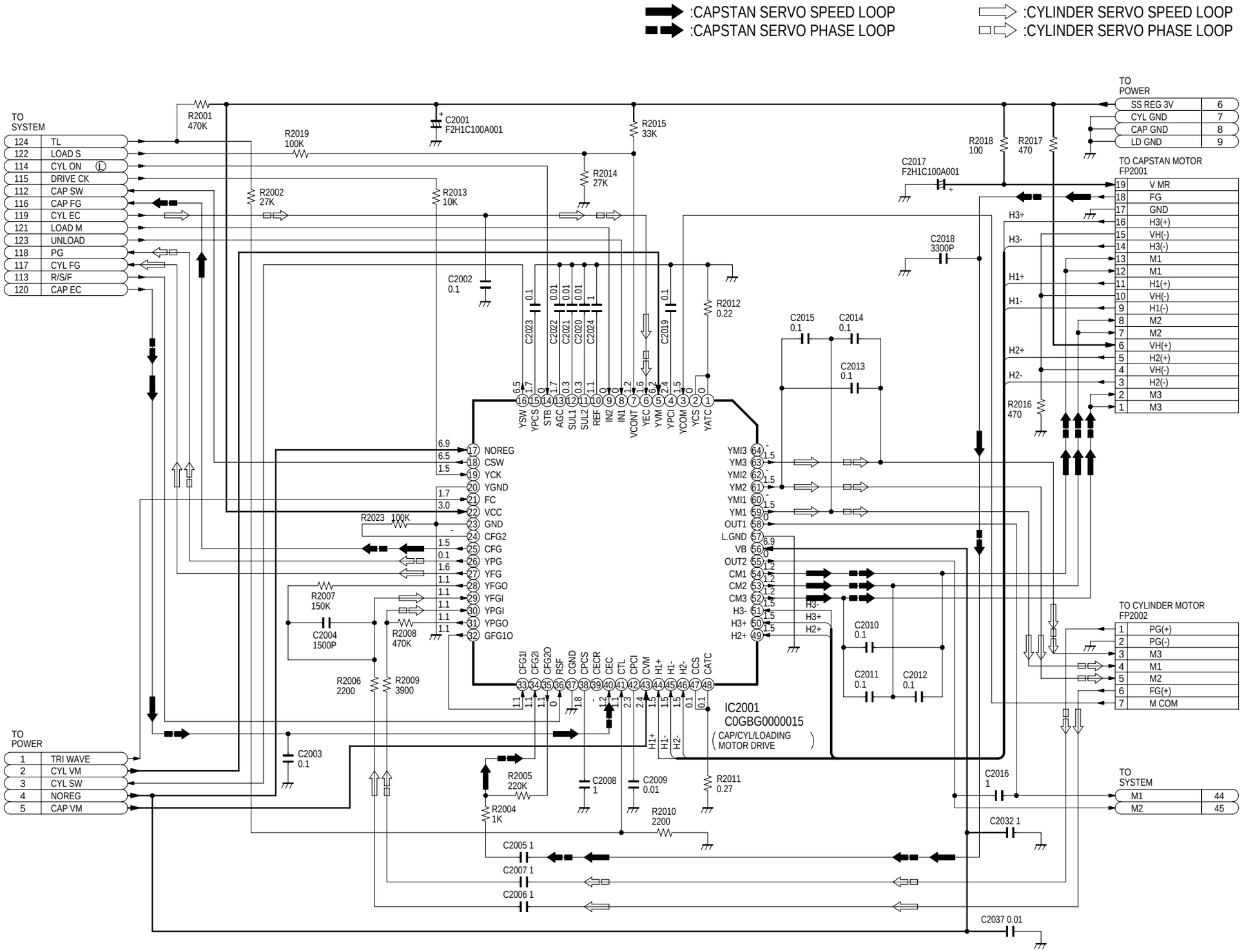
QR1001 RN2102F (SWITCHING NOREG)
QR1005 RN1112F (ERROR VOLTAGE DET)
Q1010 2SA1832FY (ERROR VOLTAGE DET)
C1051 0.33
R1052 82K
C1025 0.1
C1046 0.01
R1066 3900
R1067 22K
C1027 100P
R1016 15K
C1028 0.47
R1014 1800
R1015 1800
R1068 3900
C1026 F2H1C100A001
R1017 1K
R1018 150
C1030 4700P
TL1001 TL1003

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS,USE ONLY THE SAME TYPE.



NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.(EVF:ON)



NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

TO SYSTEM/CAMERA/ SUB SERVO
NOREG
TO SYSTEM/VIDEO/AUDIO/ MIC/CAMERA/ SP DRIVE/AVS OUT
REG 4.8V
TO SP DRIVE
SPEAK 5V
TO VIDEO/AUDIO
ST 4.8V
TO EVF
EVF 5V
TO BACK LIGHT
BL 5V
TO LCD
LCD 5V
TO LCD
LCD 3V
TO VIDEO/CAMERA/ AUDIO
REG 3V
TO SYSTEM
REG 3V
TO CAMERA
REG 3V
TO SUB SERVO
CAP VM
TO SUB SERVO
TRI WAVE
TO CAMERA
CAM 15V
TO CAMERA
CAM -8V
TO LCD
MONI 12V
TO LCD
MONI -15V
L1003
L1002
L1001
L1014
L1014
L1004
L1007
L1008
L1015
L1006
L1061
QR1002
QR1701
QR1803
QR1801
QR1061
QR1802
Q1008
QR1003
Q1002
EVF CTL
BL CTL
MONI CTL
BUFFER
Q1808
Q1809
Q1808
Q1812
Q1804
Q1802
Q1001
(SWITCHING 4.8V)
Q1003
(SWITCHING 3V)
Q1061
(SWITCHING CAP VM)
T1001
CL1003
Q1004
(POWER CONTROL)
NC
SW
4P SOCKET
LI-ION BATT.
LI BATT.
PS1003 4
PS1003 1
PS1003 2
PS1003 3
PS1003 6
TO IC6002-14
REAR CASE UNIT
QR1001
(SWITCHING NOREG)
QR6009
QR6007
QR6012
IC1001(SWITCHING REGURATOR)
PWM COMPARATOR &BUFFER
VOLTAGE CTL
REFERENCE VOLTAGE
ERROR AMP
TRI-WAVE OSC
CH1
CH2
CH3
OUT1
IN1+
IN1-
OUT2
IN2+
IN2-
OUT3
IN3+
IN3-
VCC
CT
V.REF
CTL2
ERROR VOLTAGE INPUT TERMINAL 1
ERROR VOLTAGE INPUT TERMINAL 2
ERROR VOLTAGE INPUT TERMINAL 3
X6001
IC6003
(SYSTEM CONTROL & SERVO MICROPROCESSOR)
BATT D
BATT T
BAT
POWER ON
BATT AD
B REF AD
CP ON
OSC1
OSC2
EVF CTL
BL CTL
MONI CTL
TO IC304-3
TO IC304-1
IC6002
(RTC/REG/RESET)
VTRSBT
VTRSBO
VTRSBI
ADCS
TM1M
SCLK
SIO
CS
/INT
OSC IN
OSC OUT
X6002
LITHIUM BATTERY
VDD
XON/H
RESET
VDDH
VDDB
PVDD
IC6009
RESET
CASSETTE DOWN SW
CAS DOWN
FP6001 19
Q6003,QR6005
SENSOR LED
LED DRIVE
FP6001 7
FP6001 16
SUPPLY PHOTO TR.
SENSOR LED
SPHT AD
FP6001 17
TAKE-UP REEL PULSE
FP6001 3
FP6001 2
T REEL SENSOR
SUPPLY REEL PULSE
FP6001 6
FP6001 5
S REEL SENSOR
TO CAMERA
IC6008
(EEPROM)
E2BST
E2SBO
E2SBI
E2PCS
E2R/B
CK
SI
SO
CS
R/B
A
B

TO DSC
1 S REG 3V
2 FWP FWE
3 HD ST1
4 SH RST
5 WAKE UP (H)
6 DSC CLK
7 DSC DATAO
8 DSC DATAI
9 CLK STOP
(A50) (K85) (K86) (K87) (K88) (K89) (K90) (K91)

TO CAMERA2
10 BEND
11 V1V2
12 ENC RST
13 ART V
14 SCR (H)
15 EE TBC (H)
16 D STILL (H)
(A1) (A2) (K1) (A3) (A4) (K92) (A52)

TO LCD
17 UP DN
18 LOAD
19 LCD EVF
20 L/R
21 FACE F
22 LCD BL
23 LCD ENV
(A5) (K2) (K3) (A6) (K4) (K19) (A51)

TO AUDIO
24 A MUTE
25 TALLY
26 REMOTE CTL
27 LP (H)
28 REC CTL
29 A FADE
30 SYS GND
(A8) (A9) (K5) (K6) (K7) (K8)

TO VIDEO
31 EE TBC (H)
32 S DET (H)
33 VHS (H)
34 ART V
35 S TAB
36 PB (H)
37 H SW
38 RE ON (H)
39 D REC (H)
40 LP (H)
41 V HEAD CTL
42 GAIN CTL
43 HA SW
(A53) (A54) (A10) (K9) (K10) (K11) (K12)

TO SUB SERVO
44 M1
45 M2

TO AUDIO
46 D REC (H)
47 S TAPE (H)

TO VTR OP. FP6004
CAM 16
NC 15
VCR 14
NC 13
EJECT 12
NC 11
DATA/TITLE 10 (A11)
S/S 9 (A12)
+B 8
KEY 1 7 (A13)
SUB REC 6 (A14)
GND 5
DEW 4
ZOOM(-) 3
ZOOM VR 2
ZOOM(+) 1

TO CAMERA OP. FP6002
V REF (L) 13
VR1 12 (A15)
VR2 11 (A16)
V REF (H) 10
+B 9
8
VCR LED 7
CAM LED 6
+B 5
EFFECT LED 4
SYS LED 3
KEY 0 2 (A17)
GND 1

TO POWER
48 S REG 3V
49 NOREG
50 P ON (L)
51 NOREG GND
52 C P ON (H) (A19)
53 MONI CTL (A20)
54 EVF CTL (K13)
55 REG 4.8V
56 BAT (H)

TO MECHA. FP6001
1
T REEL 2 (K14)
T REEL LED 3
NOREG GND 4
S REEL 5 (K15)
S REEL LED 6
SNS LED 7
POS3 8 (A21)
POS2 9 (A22)
POS1 10 (A23)
COM 11 (K16)
LOAD R 12
LOAD R 13
LOAD F 14
LOAD F 15
S PHOTO(+) 16
S PHOTO(-) 17 (A24)
S TAB 18 (K17)
CAS DOWN 19
GND 20
S TAPE (H) 21 (K81)

R6003 10K
R6001 150
R6095 150
R6010 33K
R6068 68K
R6067 68K
R6029 300K
R6007 470K
R6006 470K
R6023 470K
R6004 470K
R6021 470K
R6022 470K
R6059 43K
R6046 1M
C6011 1000P
R6058 18K
C6027 1
R6061 1M
C6028 1000P
R6132 1K
R6133 1K
R6040 150
R6039 150
R6033 82
R6005 150
R6041 12
R6042 22K
R6038 100K
R6043 68K
R6009 1K
R6032 4700
R6060 2200
C6038 EZH0J470A003
C6021 0.01
C6001 1
C6014 F2H1C101A003
C6034 9P

D6016 MA133
QR6013 RN2111F (P ON(L) : ON)
QR6007 RN1102F (INV.)
Q6004 2SC4738FY (INV.)
Q6006 B1HBCFD00001 (INV.)
QR6050 B1GFCFNN0011 (S.TAB (H) :ON)
QR6003 B1GFCFJA0004 (CAM LED DRIVE)
(EFFECT LED DRIVE)
QR6004 B1GFCFJA0004 (SYS LED DRIVE)
(VCR LED DRIVE)
CL6102
QR6005 RN2103F (SNS LED DRIVE)
Q6003 2SC4738FY (SNS LED DRIVE)
QR6009 RN1113F (INV.)
IC6009 C0EBE0000089 (RESET)
IC6008 C3EBGG000003 (EEP ROM)
IC6011 C0CBABC00061 (REG 3V)
IC6002 C1ZBZ0001483 (RTC)
D6005 1SS388
D6004 MA111
X6002 H0J327200051
CL6022
CL6024
CL6017
CL6003
CL6002
CL6001

(A25) (A26) (A27) (A28) (A29) (A30) (A31) (A32) (A33) (A34) (K25) (K26) (K27) (K28) (K29) (K30) (K31) (K32) (K33) (A35) (A36) (K24) (K22) (K23) (K21) (K18) (K20)

IC6008 pins: VDD 8, R/B 7, RESET 6, GND 5, CS 1, CK 2, SI 3, SO 4
IC6011 pins: GND 1, IN 2, OUT 3
IC6002 pins: VDD 8, SIO 7, /SCK 6, CS 5, /INT 1, CIN 2, COUT 3, VSS 4

1 2 3 4 5 6 7 8 9 10 11
A B C D E F G

:CAPSTAN SERVO SPEED LOOP
:CAPSTAN SERVO PHASE LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP

SYSTEM CTL SECTION
SUB SERVO SECTION
IC2001 (CAP/CYL/LOADING MOTOR DRIVE)

VTR OP.U.
ZOOM W T
DEW SENSOR
REC
SEARCH+ FF
SEARCH- REW
FADE STOP
BLC PLAY TBC
WB PAUSE
S/S
DATA/TITLE
EJECT
POWER/VCR/CAM
FP6004 1-16

CAMERA OP.U.
MF/TRACKING
SET
MENU
PROG AE
STORE
COLOUR
FP6002 1-13

MODE SW
FP6001 8-11

ZM-AD
DEW-AD
SUBREC
KEY1
S/S
DATA/TITLE
EJECT SW
VTR PER
POWER SW
VR1
VR2
CAMLED
VCRLED
EFFECT LED
SISLED
AUTOLED
KEY0
POS-COM
POS-1
POS-2
POS-3
H.SW
ENVGAIN
V.ORP
ENV AD

FROM POWER
TRI WAVE
QR2001
PB
EE
AUDIO MUTE
AUDIO FADE
TO VIDEO
DELAY REC
R ERASE ON
QR6050 (S TAB ON)
SAFETY TAB
FP6001 18
SAFETY SW
CYLINDER DRIVE CLOCK
CYLINDER ON
CL6207
CYLINDER FG
CL6206
CYLINDER PG
CL6012
CYLINDER TORQUE
VHS
FACT MODE
REMOTE CTL
TALLY
HASW
LP
FROM/TO VIDEO
SHS BO
SHS BI
SHS CLK
TO/FROM DSC
CAPSTAN R/S/F
CL6014
CAPSTAN TORQUE
Q6002 BUFFER
TORQUE LIMIT
QR6014
CAP SW
TO POWER
CL6208
CAPSTAN FG

TRIWAVE
CAP SW
AMP
DRIVE CLOCK
CYLINDER ON
FG
PG
CYLINDER EC
VCC
CAPSTAN R/S/F
CAPSTAN TORQUE
TORQUE LIMIT
FG

ACTIVE COIL SWITCHING LOGIC
SLOPE ADDITION
DRIVE TRANSISTOR CONTROL
FG AMP COMPARATOR
PG AMP COMPARATOR
CYL VM
FROM POWER
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
FP2002 4,5,3
DD CYLINDER MOTOR
FG
PG
FP2002 6,1

DIRECTION LOGIC
DIRECTION DETECTOR
DIRECTION SWITCHING
DRIVE TRANSISTOR CONTROL
MATRIX
LIMITER
CAP VM
FROM POWER
MAIN COIL 1
MAIN COIL 2
MAIN COIL 3
FP2001 12,13 / 7,8 / 1,2
DD CAPSTAN MOTOR
FG
HALL IC1
HALL IC2
HALL IC3
FP2001 19,18,6,11,9,5,3,16,14,10,4,15

FG AMP COMP.

:CAPSTAN SERVO SPEED LOOP
:CAPSTAN SERVO PHASE LOOP
:CYLINDER SERVO SPEED LOOP
:CYLINDER SERVO PHASE LOOP

IC6003
MN103004KMB
(SYSTEM CONTROL &
SERVO MICROPROCESSOR)

X6001
H0J160500026

Q6002
2SA1832FY
(BUFFER)

Q6001
2SC3295A
(AMP)

QR6014
RN1111F
(INV.)

D6010
B0ADEJ000011

D6002
1SS388

D6201
MA111

CL6011
CL6015
CL6021
CL6023

TO DSC
CAM TEST 57
DSP RST 58

TO VIDEO
ENV DET 59
FACT MODE 60
CAM TEST 61
OSD V SPL 62

TO POWER
BATT D 63
BATT T 64
BL CTL 65

TO CAMERA2
CAM TEST 66
OSD RST 67
DSP RST 68
WE 69
RE 70
AD0 71
AD1 72
AD2 73
AD3 74
AD4 75
AD5 76
AD6 77
AD7 78
AD8 79
ALE 80
CG CS 81
DM PROF 82
OK (H) 83
REF25 84
SYS VD 85
V DATA 86
V CLK 87
R/W 88
E2 SBO 89
E2 SBT 90
P DOWN 91
OSD CS 92

TO CAMERA1
CSN 93

TO LCD
E2 SBT 94
E2 SBO 95

TO POWER
V REF 96
CAP SW 97
LI BATT(+) 98

TO LENS DRIVE
O LUX SW 99
AF DR RST 100
AF DR 4M 101
AF DR SBT 102
AF DR SBO 103
AF DR CS 104
AF DR VD 105
AF DR EX F 106
AF DR EX Z 107
O LUX CTL 108
Z ENC 109
ABSF 110
LED CTL 111

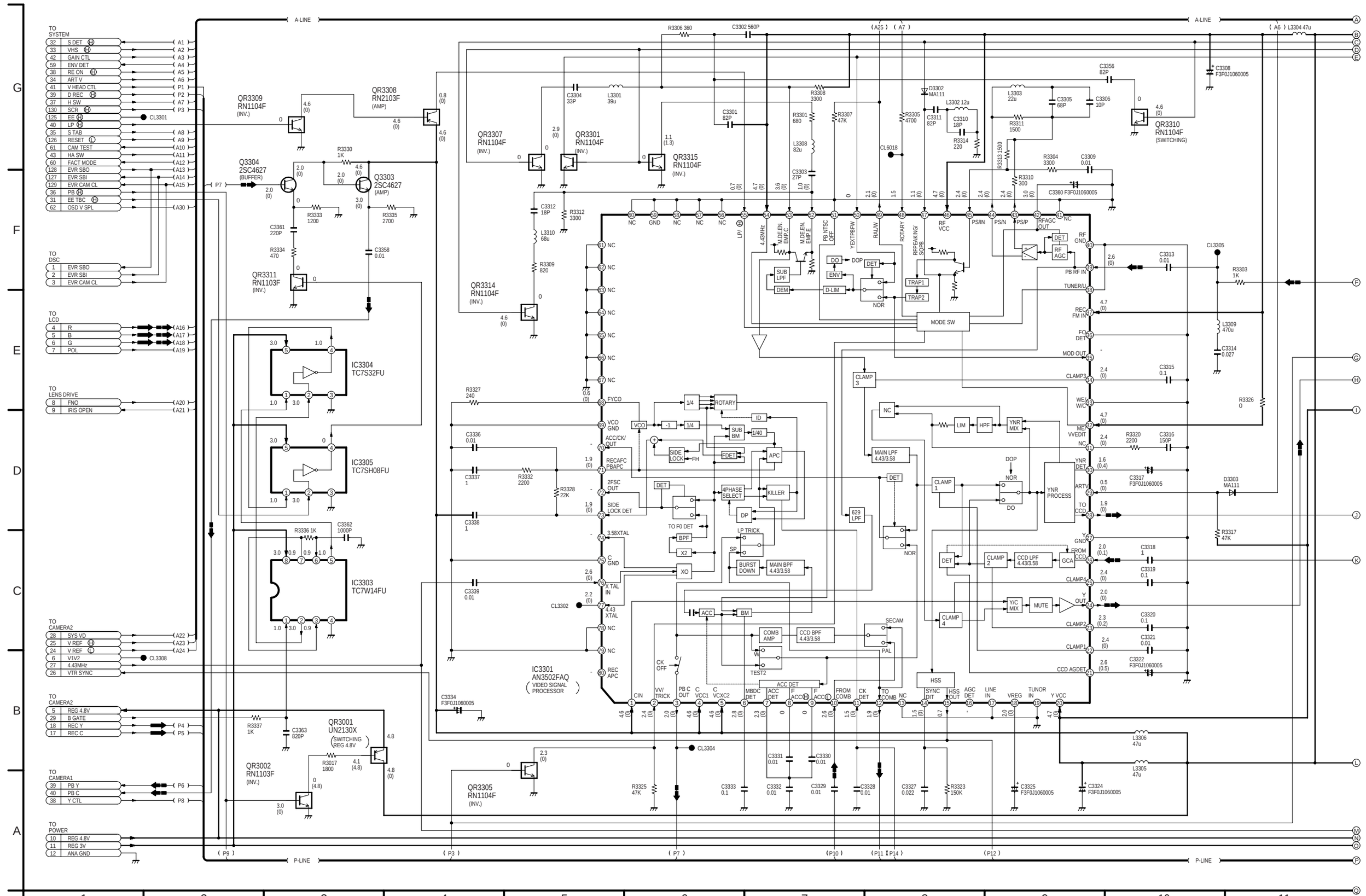
TO SUB SERVO
CAP SW 112
R/S/F 113
CYL ON (L) 114
DRIVE CK 115
CAP FG 116
CYL FG 117
PG 118
CYL EC 119
CAP EC 120
LOAD M 121
LOAD S 122
UNLOAD 123
TL 124

TO VIDEO
EE (H) 125
RESET (L) 126
EVR SBI 127
EVR SBO 128
EVR CAM CL 129
SCR (H) 130

TO AUDIO
IR OUT 131
EE (H) 132
PB CTL 133
FADE 134
VOICE ZM (H) 135

TO CAMERA2
EE (H) 136

NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.


TO SYSTEM
32 S DET (H) A1
33 VHS (H) A2
42 GAIN CTL A3
59 ENV DET A4
38 RE ON (H) A5
34 ART V A6
41 V HEAD CTL P1
39 D REC (H) P2
37 H SW A7
130 SCR (H) P3
125 EE (H) CL3301
40 LP (H)
35 S TAB A8
126 RESET (L) A9
61 CAM TEST A10
43 HA SW A11
60 FACT MODE A12
128 EVR SBO A13
127 EVR SBI A14
129 EVR CAM CL A15
36 PB (H)
31 EE TBC (H)
62 OSD V SPL A30
TO DSC
1 EVR SBO
2 EVR SBI
3 EVR CAM CL
TO LCD
4 R A16
5 B A17
6 G A18
7 POL A19
TO LENS DRIVE
8 FNO A20
9 IRIS OPEN A21
TO CAMERA2
28 SYS VD A22
25 V REF (H) A23
24 V REF (L) A24
6 V1V2 CL3308
27 4.43MHz
26 VTR SYNC
TO CAMERA2
5 REG 4.8V
29 B GATE
18 REC Y P4
17 REC C P5
TO CAMERA1
39 PB Y P6
40 PB C
38 Y CTL P8
TO POWER
10 REG 4.8V
11 REG 3V
12 ANA GND
A-LINE
P-LINE
QR3309 RN1104F (INV.)
QR3308 RN2103F (AMP)
Q3304 2SC4627 (BUFFER)
Q3303 2SC4627 (AMP)
QR3311 RN1103F (INV.)
QR3307 RN1104F (INV.)
QR3301 RN1104F (INV.)
QR3315 RN1104F (INV.)
QR3314 RN1104F (INV.)
QR3310 RN1104F (SWITCHING)
QR3001 UN2130X (SWITCHING REG 4.8V)
QR3002 RN1103F (INV.)
QR3305 RN1104F (INV.)
IC3304 TC7S32FU
IC3305 TC7SH08FU
IC3303 TC7W14FU
IC3301 AN3502FAQ VIDEO SIGNAL PROCESSOR
CL3301
CL3302
CL3304
CL3305
CL6018
D3302 MA111
D3303 MA111
MODE SW
ROTARY
APC
KILLER
4PHASE SELECT
SIDE LOCK
FDET
VCO
SUB BM
DP
BPF
X2
XO
LP TRICK
SP
BURST DOWN
MAIN BPF 4.43/3.58
MAIN LPF 4.43/3.58
629 LPF
ACC
BM
COMB AMP
CCD BPF 4.43/3.58
SECAM
PAL
TEST2
CK OFF
ACC DET
SUB LPF
DEM
D-LIM
DO
ENV
DOP
NOR
TRAP1
TRAP2
RFPEAKING/ SOPB
RF AGC
PB RF IN
TUNER/U
REC FM IN
FO DET
MOD OUT
CLAMP3
WE/ W/C
ME/ VVEDIT
YNR DET
ARTV
TO CCD
Y GND
FROM CCD
CLAMP4
Y OUT
CLAMP2
CLAMP1
CCD AGDET
CLAMP 1
CLAMP 2
CLAMP 3
CLAMP 4
CCD LPF 4.43/3.58
GCA
Y/C MIX
MUTE
YNR MIX
LIM
HPF
YNR PROCESS
HSS
SYNC DIT
HSS OUT
AGC DET
LINE IN
VREG
TUNOR IN
Y VCC
RF VCC
PS/IN
PS/N
PS/P
RFAGC OUT
NC
RF GND
4.43MHz
M.DE.EN. EMP.C
M.DE.EN. EMP.E
PB NTSC OFF
YEXTPBFW
RALW
ROTARY
RFPEAKING/ SOPB
LP/
FYCO
VCO GND
ACC/CK/ OUT
RECAFC PBAPC
2FSC OUT
SIDE LOCK DET
3.58XTAL
C GND
X TAL IN
4.43 XTAL
REC APC
CIN
VV/ TRICK
PB C OUT
C VCC1
C VCXC2
MBDC DET
ACC DET
F ACC
F ACC
FROM COMB
CK DET
TO COMB
NC
SYNC DIT
HSS OUT
AGC DET
LINE IN
VREG
TUNOR IN
Y VCC
R3306 360
C3302 560P
R3308 3300
R3301 680
R3307 47K
R3305 4700
C3311 82P
L3302 12u
C3310 18P
R3314 220
L3303 22u
C3305 68P
C3306 10P
R3311 1500
C3356 82P
C3308 F3F0J1060005
R3313 1500
R3304 3300
C3309 0.01
R3310 300
C3360 F3F0J1060005
C3304 33P
L3301 39u
C3301 82P
L3308 82u
C3303 27P
C3312 18P
R3312 3300
L3310 68u
R3309 820
R3327 240
C3336 0.01
C3337 1
R3332 2200
R3328 22K
C3338 1
C3339 0.01
C3334 F3F0J1060005
R3333 1200
R3335 2700
C3361 220P
R3334 470
C3358 0.01
R3330 1K
R3336 1K
C3362 1000P
R3337 1K
C3363 820P
R3017 1800
R3325 47K
C3333 0.1
C3332 0.01
C3331 0.01
C3330 0.01
C3329 0.01
C3328 0.01
C3327 0.022
R3323 150K
C3325 F3F0J1060005
C3324 F3F0J1060005
R3326 0
R3303 1K
L3309 470u
C3314 0.027
C3313 0.01
C3315 0.1
R3320 2200
C3316 150P
C3317 F3F0J1060005
R3317 47K
C3318 1
C3319 0.1
C3320 0.1
C3321 0.01
C3322 F3F0J1060005
L3306 47u
L3305 47u
L3304 47u
A25 A7 A6
A B C D E F G
1 2 3 4 5 6 7 8 9 10 11

:AUDIO MAIN SIGNAL PATH IN REC MODE :AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE :VIDEO MAIN SIGNAL PATH IN REC MODE :VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE

A-LINE

IC3201 M52374VP

IC3302 TL8850AF (FILTER)

IC5001 AN3355FHP (REC/PLAY HEAD AMP)

Q3301 B1HBCFA00001 (AMP)

Q5001 XN4501 (HEAD SW)

Q5002 XN4501 (HEAD SW)

TO AUDIO: CTL OUT 13, A OUT 14, MIC IN 15

TO EVR PP3001: 1 TL5002, 2 TL5002, 3 GND, 4 V ENV, 5 MIC IN, 6 ANA Y OUT, 7 A OUT, 8 FACT MODE, 9 CTL OUT, 10 B, 11 ——, 12 ——, 13 IRIS OPEN, 14 FNO, 15 POL, 16 V REF (H), 17 G, 18 VD, 19 CAM CLK, 20 CK DET, 21 ——, 22 SBI, 23 SBO, 24 GND, 25 V REF (L), 26 POL, 27 RESET (L), 28 R, 29 REG 5V, 30 ——, 31 CAM TEST, 32 HA SW, 33 V OUT, 34 S TAB, 35 EVF ADJ, 36 ——, 37 ——, 38 GND, 39 TL5001, 40 TL5001

TO AVS OUT: V OUT 16

TO POWER: EVF ADJ 17, ST 4.8V 18

TO CYLINDER UINT FP5001: 1 RE(F), 2 RE(S), 3 GND, 4 R1(F), 5 R1(S), 6 L1(F), 7 L1(S), 8 GND, 9 R2(F), 10 R2(S), 11 L2(F), 12 L2(S), 13 GND

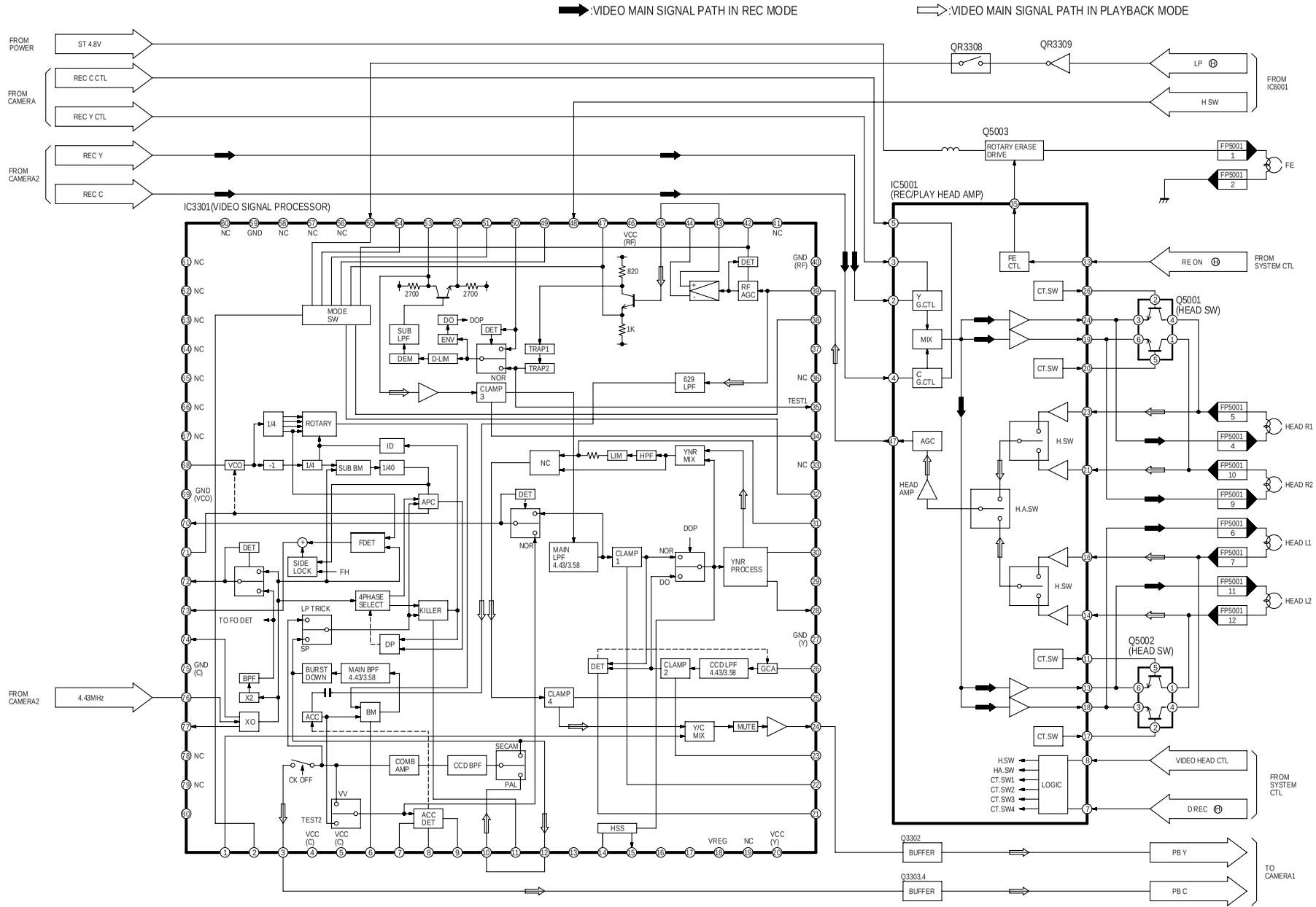
TO FRAME GND

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.

12 13 14 15 16 17 18 19 20 21 22


:VIDEO MAIN SIGNAL PATH IN REC MODE
:VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
FROM POWER
ST 4.8V
FROM CAMERA
REC C CTL
REC Y CTL
FROM CAMERA2
REC Y
REC C
IC3301(VIDEO SIGNAL PROCESSOR)
QR3308
QR3309
LP H
H SW
FROM IC6001
Q5003
ROTARY ERASE DRIVE
FP5001 1
FP5001 2
FE
IC5001 (REC/PLAY HEAD AMP)
FE CTL
RE ON H
FROM SYSTEM CTL
Y G.CTL
MIX
C G.CTL
AGC
HEAD AMP
CT.SW
Q5001 (HEAD SW)
H.SW
H.A.SW
HEAD R1
HEAD R2
HEAD L1
HEAD L2
Q5002 (HEAD SW)
FP5001 5
FP5001 4
FP5001 10
FP5001 9
FP5001 6
FP5001 7
FP5001 11
FP5001 12
LOGIC
H.SW
HA.SW
CT.SW1
CT.SW2
CT.SW3
CT.SW4
VIDEO HEAD CTL
D REC H
FROM SYSTEM CTL
MODE SW
SUB LPF
DEM
D-LIM
DO
ENV
DOP
DET
NOR
TRAP1
TRAP2
CLAMP 3
629 LPF
RF AGC
2700
820
1K
ROTARY
1/4
ID
VCO
-1
SUB BM
1/40
APC
SIDE LOCK
FDET
FH
LP TRICK
SP
4PHASE SELECT
KILLER
DP
TO FO DET
BPF
X2
XO
4.43MHz
BURST DOWN
MAIN BPF 4.43/3.58
ACC
BM
COMB AMP
CCD BPF
SECAM
PAL
CK OFF
VV
TEST2
ACC DET
HSS
NC
LIM
HPF
YNR MIX
MAIN LPF 4.43/3.58
CLAMP 1
YNR PROCESS
CLAMP 2
CCD LPF 4.43/3.58
GCA
CLAMP 4
Y/C MIX
MUTE
TEST1
GND (RF)
GND (VCO)
GND (C)
GND (Y)
VCC (RF)
VCC (C)
VCC (Y)
VREG
Q3302
BUFFER
PB Y
Q3303,4
BUFFER
PB C
TO CAMERA1

TO POWER
1 REG 4.8V
2 REG 3V
3 NOREG
4 CAM GND

TO VIDEO
5 REG 4.8V
6 V1V2

TO LENS DRIVE
7 REG 4.8V
8 PWM(A)
9 V REF
10 REG 3V
11 V REF
12 CAM GND

TO SYSTEM
71 AD0
72 AD1
73 AD2
74 AD3
75 AD4
76 AD5
77 AD6
78 AD7
79 AD8
80 ALE
88 R/W
69 WE
70 RE
10 BEND
11 V1V2
85 SYS VD
91 P DOWN
68 DSP RST
84 REF25
12 ENC RST
82 DM PROF
83 OK
67 OSD RST
86 V DATA
92 OSD CS
87 V CLK

TO POWER
13 OSD IN
14 Y IN

TO AVS OUT
15 AVS Y IN
16 C IN

TO VIDEO
17 REC C
18 REC Y

TO LCD
19 LCD NRD BK
20 LCD NRD
21 Y IN
22 R-Y
23 B-Y

TO SYSTEM
13 ART V
14 SCR
66 CAM TEST

Q310 2SC4738FY (AMP)
Q411 2SC4738FY (AMP)
Q403 2SA1832FY (AMP)
Q305 2SA1832FY (AMP)
Q402 2SA1832FY (AMP)
Q401 2SA1832FY (AMP)
Q410 B1HDCFA00001 (AMP)
QR410 RN1104F (INV.)
QR406 RN1102F (INV.)

IC306 S817A18ANB (REG 1.8V)
IC305 C0CBAAB00018 (REG 1.8V)
IC407 S817A18ANB (REG 1.8V)
IC308 S817A33ANB (REG 3.3V)
IC301 C1AB00001338 (DSP)

CL401
X301 H0J450500002 (45.0625MHz)

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

:VIDEO MAIN SIGNAL PATH

Q307 2SA1832FY (AMP)
Q308 B1HFCFE00001 (AMP)
Q306 B1HDCFA00001 (AMP)
QR405 RN1104F (INV.)
QR404 RN2103F (INV.)
QR401 RN2103F (AMP)
QR409 RN1104F (INV.)
QR402 RN2107F (SCR H : ON)
QR403 RN2103F (AMP)
QR407 RN1111F (INV.)
IC405 TC7W14FU
IC402 TC7SH04FU
IC304 C1AB00001328 (OSD)
IC309 4C2973-32 (FIELD MEMORY)
IC401 T74VHC08FS
D401 1SS388
D402 1SS388
D403 MA111

TO SYSTEM
EE H 136
CG CS 81
E2 SBO 89
E2 SBT 90
D STILL H 16

TO CAMERA1
E2 SBO 14
E2 SBT 15
PB STILL 18
PB SHIFT 17
SUB 1
CH2 2
CH1 3
V4 4
V3 5
V2 6
V1 7
PWM(B) 16
FCK 12
V REF L 28
V REF H 27
REG 3V 9
AD C IN 20
AD Y IN 8
CPOB 13
C CTL 23
RGA TINT 21
BGA VCO 22
H2 31
H1 30
R PULSE 32
DS2 10
DS1 11
CG 3.3V 29
VTR SYNC1 19

TO SYSTEM
EE TBC H 15

TO VIDEO
V REF L 24
V REF H 25
VTR SYNC 26
4.43MHz 27
SYS VD 28
B GATE 29

TO DSC
SYS VD 30
OSD HD 31
SR CK 32
FM Y I0 33
FM Y I1 34
FM Y I2 35
FM Y I3 36
FM Y I4 37
FM Y I5 38
FM Y I6 39
FM Y I7 40
FM C I0 41
FM C I1 42
FM C I2 43
FM C I3 44

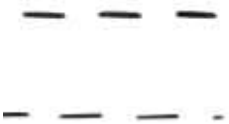
12	13	14	15	16	17	18	19	20	21

IC701-12, 14 POWER ON
6.0 Vp-p (5msec./div.)
ZOOM MOTOR DRIVING

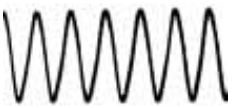
IC5001-47 PLAY
0.2 Vp-p (2msec./div.)
COLOUR BAR

IC5001-8
3.0 Vp-p (20msec./div.)
COLOUR BAR

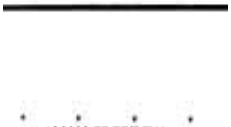
IC6003-14 FF/REW
2.2 Vp-p (50msec./div.)



IC6003-16 FF/REW
3.0 Vp-p (20msec./div.)

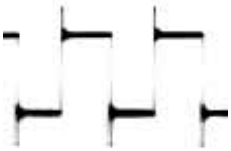


IC6003-66 STOP
2.6 Vp-p (50nsec./div.)

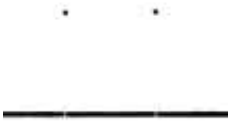


IC6003-75 FF/REW
3.0 Vp-p (10msec./div.)

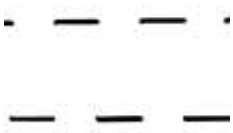
IC6003-144, IC2001-40 REC/PLAY
5.2 Vp-p (1µsec./div.)



IC6003-145 REC/PLAY
5.4 Vp-p (1µsec./div.)

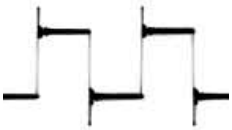


IC6003-155, IC2001-26 REC/PLAY
3.0 Vp-p (10msec./div.)



IC6003-157, IC2001-25 REC/PLAY
3.0 Vp-p (0.2msec./div.)

IC6003-159, IC2001-27 REC/PLAY
3.0 Vp-p (1msec./div.)



IC6003-174 STOP
5.4 Vp-p (0.5µsec./div.)

IC2001-59, 61, 63 REC/PLAY
2.8 Vp-p (1msec./div.)

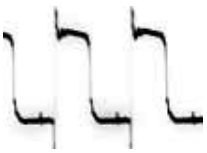
IC2001-52, 53, 54 REC/PLAY
2.8 Vp-p (20msec./div.)

IC302-10 STOP
1.2 Vp-p (20µsec./div.)
GRAY SCALE

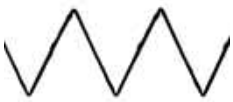
IC302-26 STOP
0.6 Vp-p (20µsec./div.)
GRAY SCALE

IC1001-9 STOP
1.0 Vp-p (1µsec./div.)

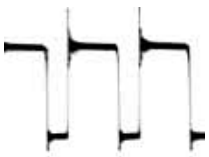
IC1001-11 STOP
1.4 Vp-p (1µsec./div.)



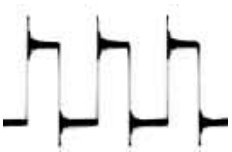
IC1001-15 STOP
1.3 Vp-p (1µsec./div.)



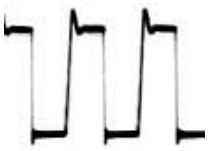
IC1001-27 STOP
0.6 Vp-p (1µsec./div.)



Q1001-2 STOP
11.8 Vp-p (1µsec./div.)



Q1003-4 STOP
12.0 Vp-p (1µsec./div.)



Q1004-2 STOP
18.0 Vp-p (1µsec./div.)

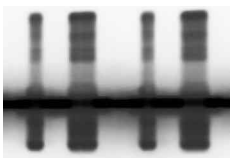
Q1061-4 STOP
0.2 Vp-p (1µsec./div.)

Q1062-4 STOP
0.2 Vp-p (1µsec./div.)

IC801-5 STOP
1.0 Vp-p (20µsec./div.)
COLOUR BAR

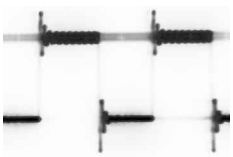
IC301-30 PLAY
1.2 Vp-p (20µsec./div.)
COLOUR BAR

IC301-37 PLAY
1.5 Vp-p (20µsec./div.)
COLOUR BAR

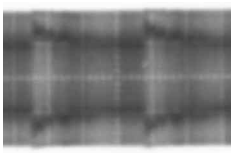


IC301-83 PLAY
2.5 Vp-p (20µsec./div.)
COLOUR BAR

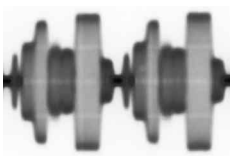
IC301-118 PLAY
1.0 Vp-p (20µsec./div.)
COLOUR BAR



IC301-91 REC
3.0 Vp-p (0.5µsec./div.)
COLOUR BAR



IC301-123 REC
1.0 Vp-p (20µsec./div.)
COLOUR BAR



IC3301-3 PLAY
0.8 Vp-p (20µsec./div.)
COLOUR BAR

IC3301-24 PLAY
2.0 Vp-p (20µsec./div.)
COLOUR BAR

:AUDIO MAIN SIGNAL PATH IN REC MODE
:AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE

TO POWER: 1 ST 4.8V
TO SYSTEM: 29 A FADE; 135 VOICE ZM (H); 24 A MUTE
TO POWER: 2 REG 4.8V; 3 SPEAK 5V; 4 A GND
TO CAMERA1: 24 T VOL; 37 SPK VOL
TO VIDEO: 15 MIC IN; 14 A OUT
TO AVS OUT: 5 A OUT

IC4001 AN12998A-V (AUDIO SIGNAL PROCESSOR)
QR4001 RN1111F (INV.)
QR4002 RN1111F (INV.)
QR4003 RN1111F (INV.)
Q4006 2SD602A-R (BIAS OSC)
Q4007 2SB1219 (SWITCHING 4.8V)
Q4008 2SC4617HR (POWER CTL)
Q4009 XP4501 (MUTE)
QR4005 RN2103F (MUTE)
QR4004 RN1103F (MUTE)
QR4006 RN1103F (MUTE)
QR6801 RN2111F (TALLY LED DRIVE)
QR4008 RN1102F (MUTE)
Q4005 2SC4617HR (S TAPE (H):ON)

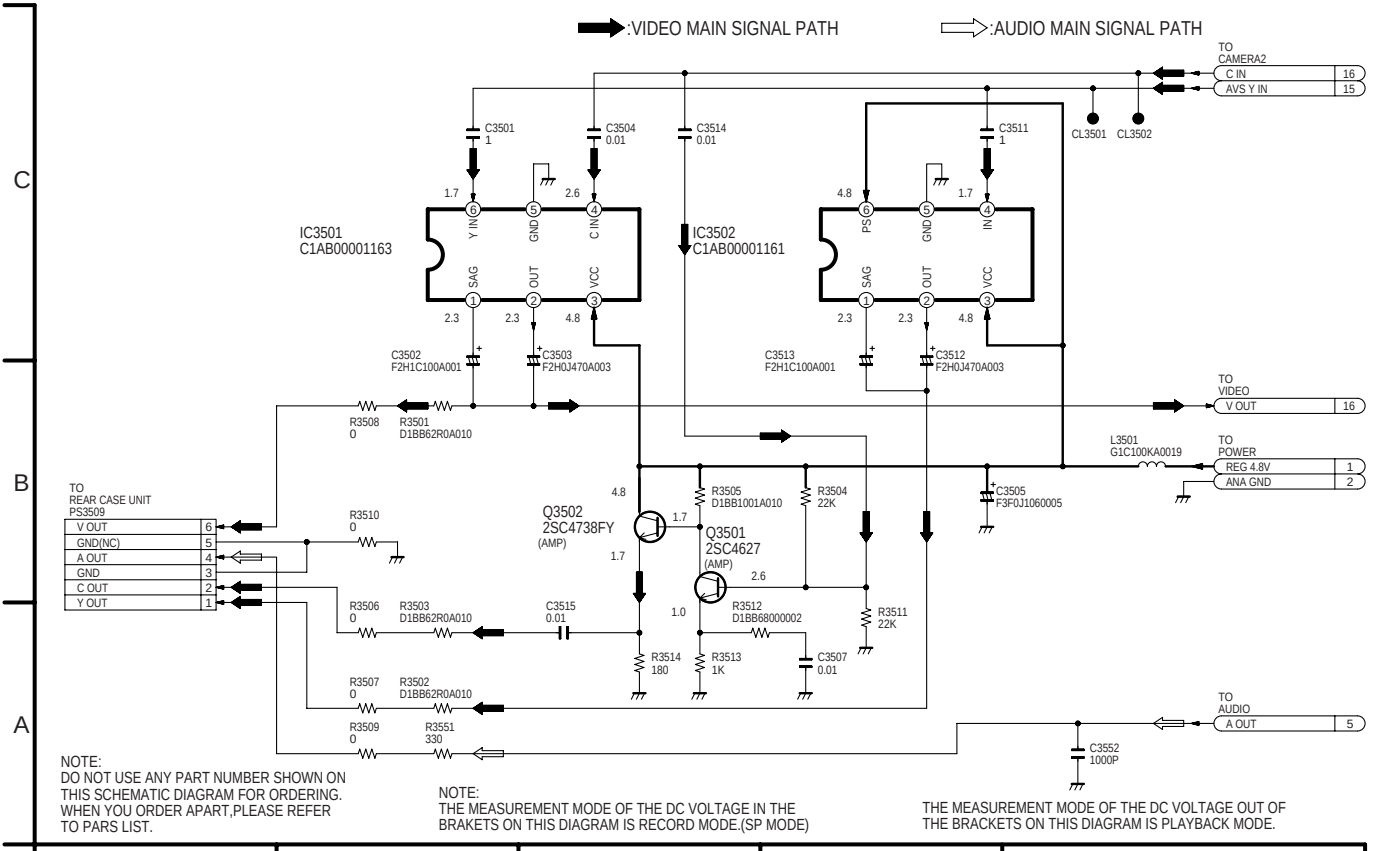
TO AC HEAD FP4001: 9 A GND; 8 AH(P); 7 AH(R); 6 AEH GND; 5 AEH; 4 CTL(-); 3 CTL(+); 2 CE; 1 CE GND
TO SYSTEM: LP (H) 27; D REC (H) 46; FADE 134; IR OUT 131; PB CTL 133; REC CTL 28; EE (H) 132; TALLY 25; REMOTE CTL 26; SYS GND 30
TO POWER: REG 3V 6
TO VIDEO: CTL OUT 13
TO SYSTEM: S TAPE (H) 47
TO DSC: T 7; R1 8; R2 9; S 10
TO MIC UNIT FP4002: 16 SP OUT(-); 15 R IN1; 14 SP OUT(+); 13 D OUT1; 12 ECM GND; 11 RS GND; 10 ECM OUT; 9 SYS GND; 8 SYS GND; 7 SYS REG 5V; 6 IR NOREG; 5 TALLY LED; 4 IR LED OUT; 3 FADE; 2 IR OUT; 1 REMOTE CTL — TO FP6801
TO LENS DRIVE: IR NOREG 11; IR LED OUT 12

D6099 1SS388

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS( )ON THIS DIAGRAM IS RECORD MODE.(SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.


:VIDEO MAIN SIGNAL PATH
:AUDIO MAIN SIGNAL PATH
TO CAMERA2
C IN 16
AVS Y IN 15
CL3501
CL3502
C3501 1
C3504 0.01
C3514 0.01
C3511 1
IC3501 C1AB00001163
Y IN
GND
C IN
SAG
OUT
VCC
IC3502 C1AB00001161
PS
GND
IN
SAG
OUT
VCC
C3502 F2H1C100A001
C3503 F2H0J470A003
C3513 F2H1C100A001
C3512 F2H0J470A003
TO VIDEO
V OUT 16
R3508 0
R3501 D1BB62R0A010
L3501 G1C100KA0019
TO POWER
REG 4.8V 1
ANA GND 2
C3505 F3F0J1060005
TO REAR CASE UNIT PS3509
V OUT 6
GND(NC) 5
A OUT 4
GND 3
C OUT 2
Y OUT 1
R3510 0
Q3502 2SC4738FY (AMP)
R3505 D1BB1001A010
R3504 22K
Q3501 2SC4627 (AMP)
R3506 0
R3503 D1BB62R0A010
C3515 0.01
R3512 D1BB68000002
R3511 22K
R3514 180
R3513 1K
C3507 0.01
R3507 0
R3502 D1BB62R0A010
R3509 0
R3551 330
TO AUDIO
A OUT 5
C3552 1000P
NOTE:
DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER APART,PLEASE REFER TO PARS LIST.
NOTE:
THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRAKETS ON THIS DIAGRAM IS RECORD MODE.(SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE.
C
B
A
1
2
3
4
5

CCD UNIT

IC315
(CCD DRIVE)

PS291 PP301 3 3
PS291 PP301 8 8
PS291 PP301 9 9
PS291 PP301 10 10
PS291 PP301 11 11
PS291 PP301 12 12
FROM POWER SECTION

SUB
V4
CH2
V3
V2
CH1
V1

TO AUDIO
TO VIDEO
TO SP-DRIVE

13 V4
12 V3
11 V2
10 V1
9 -8V
+15V
PS291 PP301 2 2 FROM POWER SECTION

IC302(CDS/AGC)

FROM VIDEO PB C PB Y

CCD IMAGE SENSOR
Q291
BUFFER
PS291 PP301 1 1
H1
H2

CDS AGC KNEE BUFF
D/A
V REF GEN.
SPK VOL
C CTL
Y CTL
T VOL
DS2 DS1 VBOT VTOP SDATA SCK CSN PWMB HALL GAIN HALL BIAS

PS291 PP301 5 5 H2
PS291 PP301 4 4 H1
PS291 PP301 6 6 R

IC3454(DSC I/F)
Y IN 7 Y IN 6 Y IN 5 Y IN 4 Y IN 3 Y IN 2 Y IN 1 Y IN 0
Y OUT 7 Y OUT 6 Y OUT 5 Y OUT 4 Y OUT 3 Y OUT 2 Y OUT 1 Y OUT 0
C IN 3 C IN 2 C IN 1 C IN 0
C OUT 0 C OUT 1 C OUT 2 C OUT 3

IC3451(DSC uCOM)
PD0 PD1 PD2 PD3 PD4 PD5 PD6 PD7
PD8 PD9 PD10 PD11

IC3452(4M DRAM)
Y I/O 0 Y I/O 1 Y I/O 2 Y I/O 3 Y I/O 4 Y I/O 5 Y I/O 6 Y I/O 7
C I/O 0 C I/O 1 C I/O 2 C I/O 3
A0 A1 A2 A3 A4 A5 A6 A7 A8
PC 1 PC 2 PC 3 PC 4 PC 5 PC 6 PC 7 PC 8 PC 9

DSC DATA O
DSC DATA I
DSC CLK
FROM/TO SYSTEM CTL

DSC SECTION

LENS UNIT

FP701 8
FP701 2
ALC MAIN
Q704
AMP
FROM EVR

IC706
IC711

FP701 3 HALL OUT(+)
FP701 5 HALL OUT(-)
FP701 6 HALL IN(+)
FP701 4 HALL IN(-)

ZOOM ENCODER
FOCUS ENCODER

FP701 18 FOCUS ENCODER
FP701 21 LED CTL
QR701
LED DRIVE
FP701 20 ZOOM ENCODER
FP701 13

ZOOM LENS
IRIS
FOCUS LENS

M ZOOM MOTOR
HALL SENSOR
IRIS MOTOR
FOCUS MOTOR M

IC701(MOTOR DRIVE)

FP701 11 FMT1
FP701 10 FMT2
FP701 9 FMT3
FP701 12 FMT4
FP701 16 ZMT1
FP701 15 ZMT2
FP701 14 ZMT3
FP701 17 ZMT4

A1 B2 A2 B1 C1 D2 C2 D1

RESET
OSCIN
SCLK
SDATA
LATCH
VD
EXTZ
EXTF

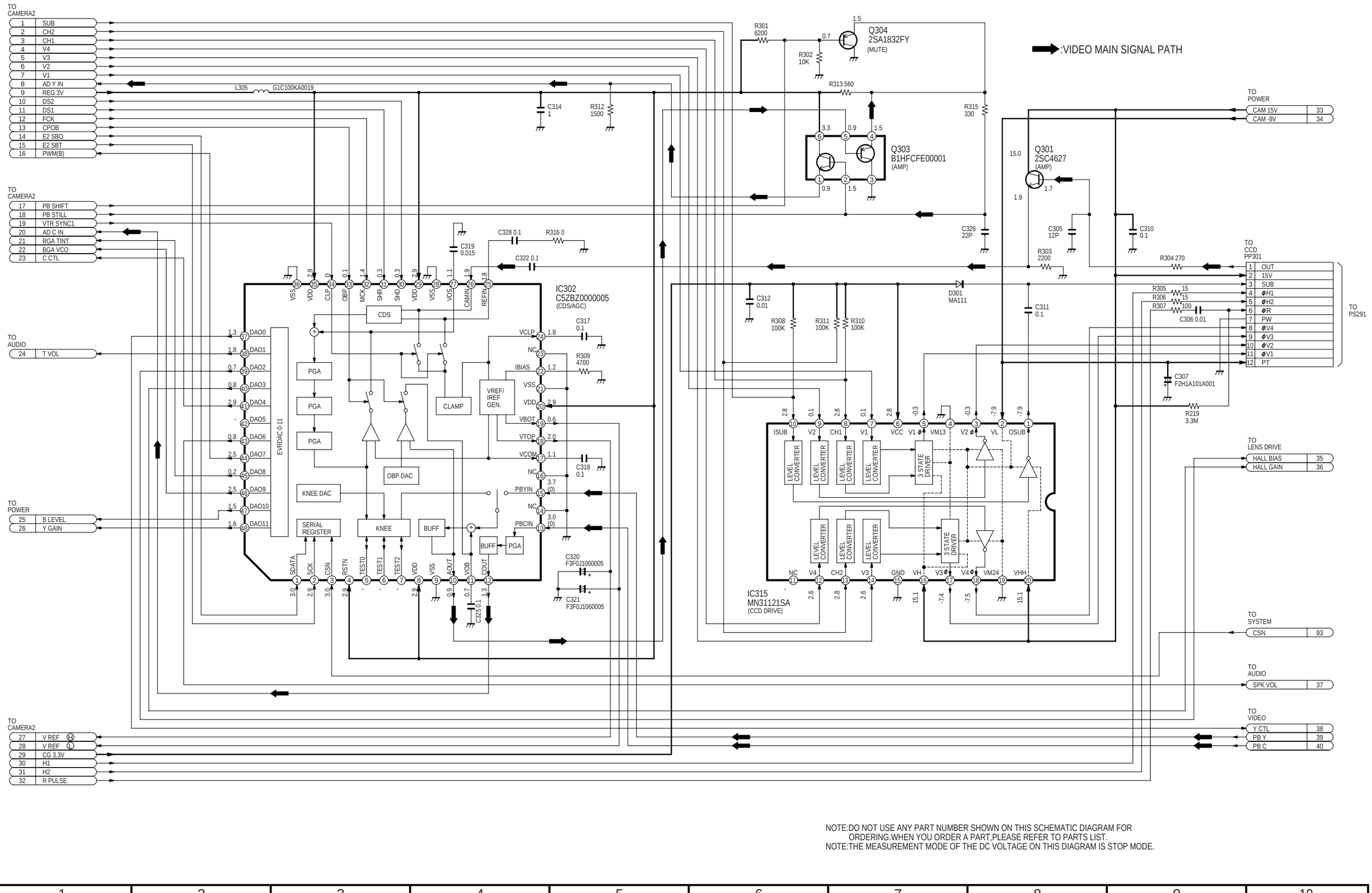
IC6008(EEPROM)
CS CK SI SO R/B
E2PCS E2SBT E2SBO E2SBI E2R/B

CSN PDN RE WE BEND AD0-AD8 V1V2 CGCS R/W VTRSBT OSDCS VTRSBO
DMPPOF OKH SYS VD
FENC LED CNT ZENC 0LUX CNT AF DRRST F-CLK AF DRSBT AF DRSBO AF DRCS AF DRVD AF DREXZ AF DREXF

IC6003
(SYSTEM CONTROL & SERVO
MICOROPROCESSOR)

IC304
(OSD)
EXD RD VD HD RDBLK
CLK CS DATA NRD1 NRD BLK NRD
NRD
NRD BLK
NRD1
TO EVF
TO LCD

SYSTEM CONTROL SECTION


:VIDEO MAIN SIGNAL PATH
TO CAMERA2
1 SUB
2 CH2
3 CH1
4 V4
5 V3
6 V2
7 V1
8 AD Y IN
9 REG 3V
10 DS2
11 DS1
12 FCK
13 CPOB
14 E2 SBO
15 E2 SBT
16 PWM(B)
TO CAMERA2
17 PB SHIFT
18 PB STILL
19 VTR SYNC1
20 AD C IN
21 RGA TINT
22 BGA VCO
23 C CTL
TO AUDIO
24 T VOL
TO POWER
25 B LEVEL
26 Y GAIN
TO CAMERA2
27 V REF (H)
28 V REF (L)
29 CG 3.3V
30 H1
31 H2
32 R PULSE
L305 G1C100KA0019
C314 1
R312 1500
R301 6200
R302 10K
Q304 2SA1832FY (MUTE)
R313 560
R315 330
Q303 B1HFCFE00001 (AMP)
C326 22P
Q301 2SC4627 (AMP)
C305 12P
C310 0.1
R303 2200
R304 270
D301 MA111
C312 0.01
C311 0.1
R308 100K
R311 100K
R310 100K
C328 0.1
R316 0
C319 0.015
C322 0.1
IC302 C5ZBZ0000005 (CDS/AGC)
CDS
PGA
PGA
PGA
CLAMP
VREF/ IREF GEN.
OBP DAC
KNEE DAC
SERIAL REGISTER
KNEE
BUFF
BUFF
PGA
EVRDAC 0-11
DAO0
DAO1
DAO2
DAO3
DAO4
DAO5
DAO6
DAO7
DAO8
DAO9
DAO10
DAO11
VSS VDD CLP OBP MCK SHR SHD VDD VSS VOS CAMIN REFIN
SDATA SCK CSN RSTN TEST0 TEST1 TEST2 VDD VSS AOUT VOB COUT
VCLP NC IBIAS VSS VDD VBOT VTOP VCOM NC PBYIN NC PBCIN
C317 0.1
R309 4700
C318 0.1
C320 F3F0J1060005
C321 F3F0J1060005
C325 0.1
ISUB V2 CH1 V1 VCC V1 VM13 V2 VL OSUB
NC V4 CH2 V3 GND VH V3 V4 VM24 VHH
LEVEL CONVERTER
3 STATE DRIVER
IC315 MN31121SA (CCD DRIVE)
TO POWER
CAM 15V 33
CAM -8V 34
TO CCD PP301
1 OUT
2 15V
3 SUB
4 ϕH1
5 ϕH2
6 ϕR
7 PW
8 ϕV4
9 ϕV3
10 ϕV2
11 ϕV1
12 PT
TO PS291
R305 15
R306 15
R307 100
C306 0.01
C307 F2H1A101A001
R219 3.3M
TO LENS DRIVE
HALL BIAS 35
HALL GAIN 36
TO SYSTEM
CSN 93
TO AUDIO
SPK VOL 37
TO VIDEO
Y CTL 38
PB Y 39
PB C 40
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.

:VIDEO MAIN SIGNAL PATH

IC309(VS7/VS5 ONLY)
FM Y IN
FM C IN
FM Y OUT
FM C OUT

IC301(DSP/VIDEO)
VREF2
PWM

Y IN
VRT
VRB
C IN
AD1
AD2
PBH

ADIN
YC
Y OUT
C OUT
T OUT
DBOYC

WB
WBYOUT
WBCOUT
DBOWB

DNR
FMY/C OUT
YOUT
COUT

DSCMODE
FMWCNT

MEMCON
R1PORT
R2PORT

DIS
DBODIS

ADRR
DBI
WE*
RE*
MIF
RWO
RD
WR

ZOOMYOUT
ZOOMCOUT
MOSAIC
MEMVCTRL
ZOOM
FMY/C IN
CGVCTRL
DISVCTRL
YCVCTRL

PBTHY
PBTHC
VIDEO
ENCCO
RECCO
FSC O
RECYO
ENVY0
R-Y0
B-Y0
EDMY
SIN/COS
PBNLO
DSC OUT

D/A
R323 - R334
C OUT
R339 R391 - R348 R401
REC C OUT
R393 - R398
4.43MHz
TO VIDEO
DA
REC Y OUT
Y OUT
R-Y OUT
B-Y OUT
TO HEAD AMP IC5001
TO AV JACK
TO LCD

H2
H1
R
DS2
DS1
SUB
CH2
CH1
V4
V3
V2
V1
HCLR
DCP,FH2
CG
VD
HD
FI
CG FCK
CG2 FCK

RY 0
DEC
BY 0
DSEL 0

TBCYO
TBCCO
TBCSYNC,TBCBF,
TBCBLK,TBCCSW
TBC
TBCHD
TBCHD
VTRVD
VTRHD

NHRST
SSG
WIPESIG
BF,CBLK,FP,
SYNC,CSW,HP

FTG
FTG1,2
ZONE
AF
DB0AF

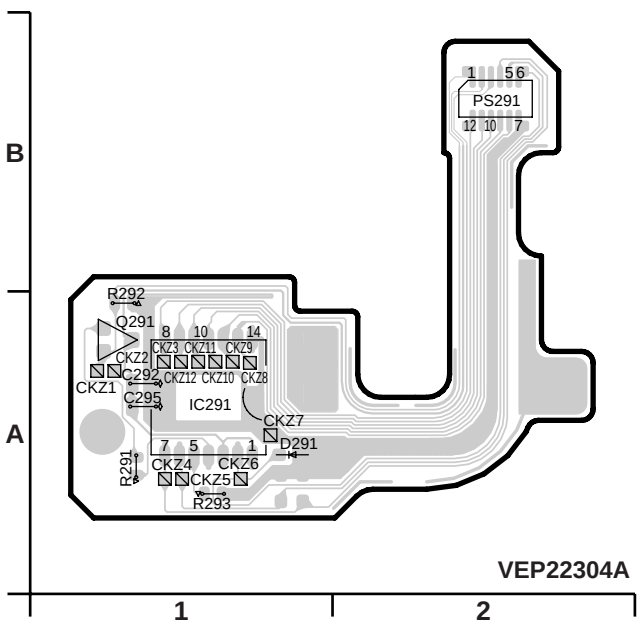
TBC OFF

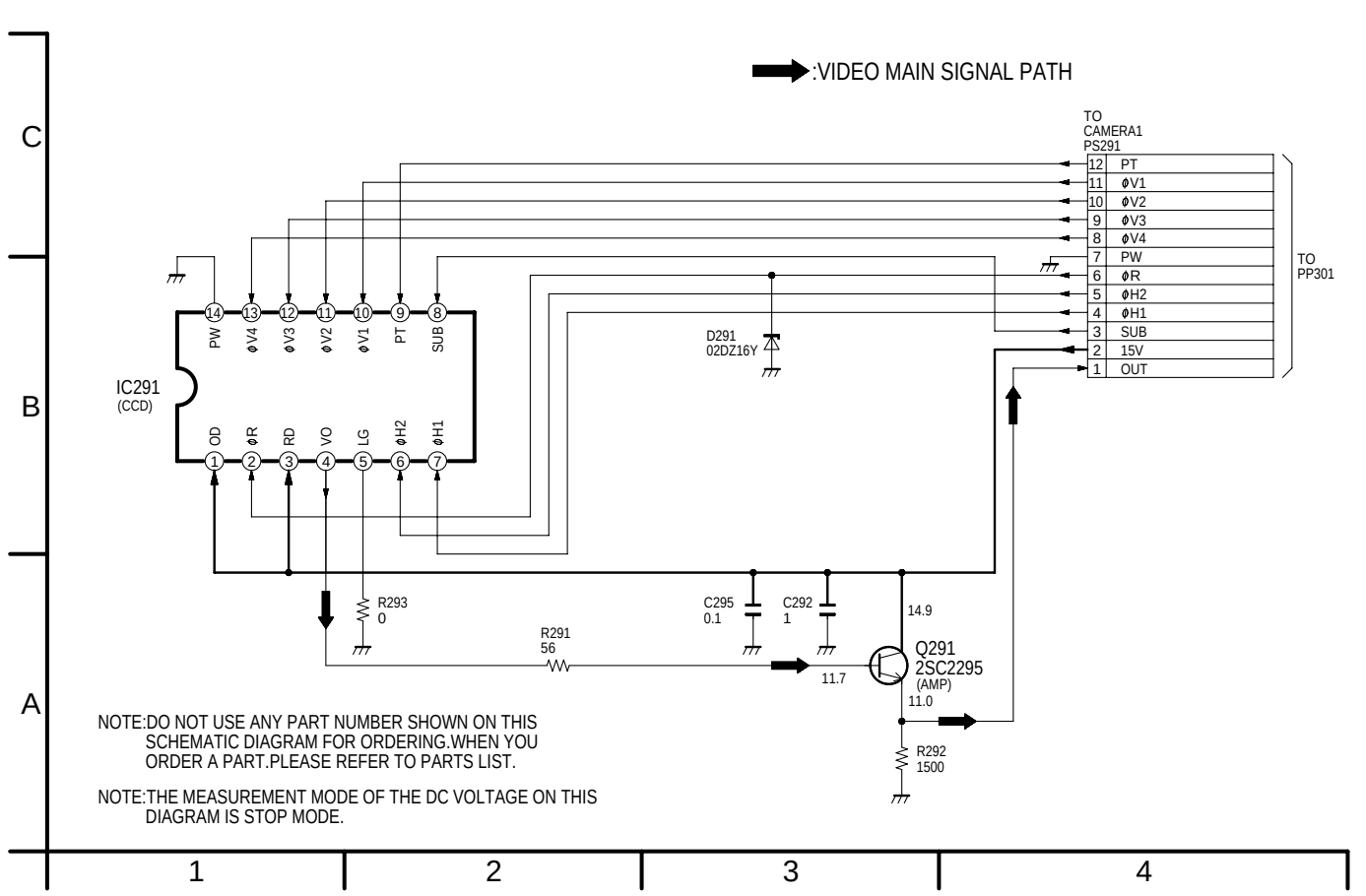
FCK*
2FCK*
4FCK*
CLOCK
TSTDEC
FMW CNT
DSCMODE
FM WRITE SELECT
VDDCY,
OSDMODE

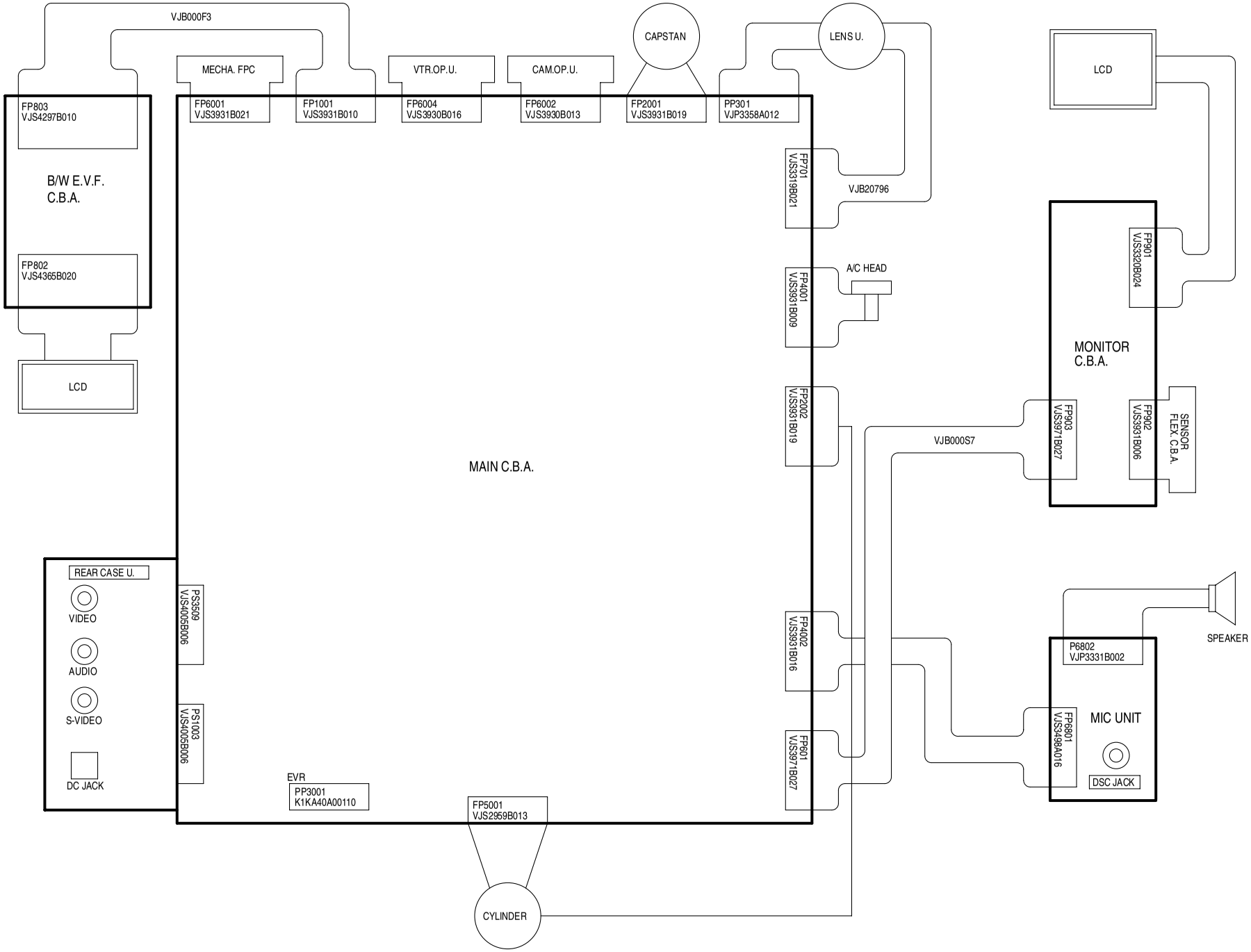
4FCK
OSC
X301

FCK23
DMCHR
DIGMEM

IC408
IC410
IC405


B
A
1
2
PS291
1
5
6
12
10
7
R292
Q291
8
10
14
CKZ3
CKZ11
CKZ9
CKZ2
CKZ1
C292
CKZ12
CKZ10
CKZ8
C295
IC291
CKZ7
D291
7
5
1
CKZ4
CKZ6
CKZ5
R291
R293
VEP22304A


:VIDEO MAIN SIGNAL PATH
TO
CAMERA1
PS291
12 PT
11 φV1
10 φV2
9 φV3
8 φV4
7 PW
6 φR
5 φH2
4 φH1
3 SUB
2 15V
1 OUT
TO
PP301
IC291
(CCD)
14 PW
13 φV4
12 φV3
11 φV2
10 φV1
9 PT
8 SUB
1 OD
2 φR
3 RD
4 VO
5 LG
6 φH2
7 φH1
D291
02DZ16Y
R293
0
R291
56
C295
0.1
C292
1
14.9
11.7
Q291
2SC2295
(AMP)
11.0
R292
1500
NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART.PLEASE REFER TO PARTS LIST.
NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
C
B
A
1
2
3
4


VJB000F3
MECHA. FPC
VTR.OP.U.
CAM.OP.U.
CAPSTAN
LENS U.
LCD
FP803
VJS4297B010
B/W E.V.F.
C.B.A.
FP802
VJS4365B020
LCD
FP6001
VJS3931B021
FP1001
VJS3931B010
FP6004
VJS3930B016
FP6002
VJS3930B013
FP2001
VJS3931B019
PP301
VJP3358A012
FP701
VJS3319B021
VJB20796
FP4001
VJS3931B009
A/C HEAD
FP2002
VJS3931B019
MAIN C.B.A.
FP4002
VJS3931B016
FP601
VJS3971B027
FP901
VJS3320B024
MONITOR
C.B.A.
FP903
VJS3971B027
FP902
VJS3931B006
SENSOR
FLEX. C.B.A.
VJB000S7
REAR CASE U.
VIDEO
AUDIO
S-VIDEO
DC JACK
PS3509
VJS4005B006
PS1003
VJS4005B006
EVR
PP3001
K1KA40A00110
FP5001
VJS2959B013
CYLINDER
SPEAKER
P6802
VJP3331B002
FP6801
VJS3498A016
MIC UNIT
DSC JACK

Ref No.	IC6002																			
MODE	1	2	3	4	5	6	7	8												
STOP	3.0	0.4	0.5	0.0	0.2	2.6	2.6	-												
PLAY	3.0	0.4	0.5	0.0	0.2	2.6	2.6	-												
REC.	3.0	0.4	0.5	0.0	0.2	2.6	2.6	-												
F.F.	3.0	0.4	0.5	0.0	0.2	2.6	2.6	-												
REW	3.0	0.4	0.5	0.0	0.2	2.6	2.6	-												
Ref No.	IC6003																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	3.0	0.0	0.0	3.0	3.0	0.0	3.0	2.9	0.0	3.0	0.0	0.0	3.0	0.1	3.0	2.6	3.0	2.9	0.0	3.0
PLAY	3.0	0.0	0.0	3.0	3.0	0.0	3.0	2.9	0.0	3.0	0.0	3.0	3.0	0.1	3.0	1.4	3.0	2.9	0.0	3.0
REC.	3.0	0.0	0.0	3.0	3.0	0.0	3.0	2.9	0.0	3.0	0.0	3.0	3.0	2.7	3.0	1.4	3.0	2.9	0.0	3.0
F.F.	3.0	0.0	0.0	3.0	0.0	0.0	3.0	2.9	0.0	3.0	0.0	3.0	3.0	1.4	3.0	1.4	3.0	2.9	0.0	3.0
REW	3.0	0.0	0.0	3.0	0.0	0.0	3.0	2.9	0.0	3.0	3.0	3.0	3.0	1.4	3.0	1.4	3.0	2.9	0.0	3.0
Ref No.	IC6003																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.0	3.0	3.0	3.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
PLAY	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.0	3.0	3.0	3.0	0.5	0.2	0.3	0.3	0.2	0.3	0.2	0.4	0.0
REC.	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.0	3.0	3.0	3.0	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
F.F.	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.0	3.0	3.0	3.0	0.6	0.2	0.6	0.3	0.2	0.6	0.5	0.4	0.0
REW	0.0	0.0	0.0	0.5	0.0	0.0	0.0	3.0	3.0	3.0	3.0	0.6	0.5	0.6	0.3	0.5	0.6	0.5	0.6	0.0
Ref No.	IC6003																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	3.0	3.0	3.0	3.0	2.9	0.0	3.0	0.0	0.0	0.0	2.9	3.0
PLAY	0.3	0.3	0.4	0.4	0.3	0.3	0.2	0.4	3.0	0.0	3.0	3.0	2.9	0.0	3.0	0.0	0.0	0.0	2.9	3.0
REC.	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.3	3.0	3.0	3.0	3.0	2.9	0.0	3.0	0.0	0.0	0.0	2.9	3.0
F.F.	0.6	0.3	0.4	0.6	0.4	0.6	0.5	0.6	3.0	3.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	0.0	2.9	3.0
REW	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	3.0	3.0	3.0	3.0	3.0	0.0	3.0	0.0	0.0	0.0	2.9	3.0
Ref No.	IC6003																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0.0	0.0	3.0	0.0	1.4	1.5	3.0	1.4	0.0	2.9	0.0	3.0	2.6	0.0	3.0	3.0	3.0	0.0	0.0	3.0
PLAY	0.0	0.0	3.0	0.0	1.4	1.5	3.0	1.4	0.0	2.9	0.0	3.0	2.6	0.0	3.0	3.0	0.0	3.0	0.0	3.0
REC.	0.0	0.0	3.0	0.0	1.4	1.5	3.0	1.4	0.0	2.9	0.0	0.0	2.6	0.0	3.0	3.0	3.0	0.0	0.0	3.0
F.F.	0.0	0.0	3.0	0.0	1.4	1.4	3.0	1.4	0.0	2.9	0.0	3.0	2.6	3.0	2.9	3.0	3.0	0.0	0.0	3.0
REW	0.0	0.0	3.0	0.0	1.4	1.4	3.0	1.4	0.0	2.9	0.0	3.0	2.6	3.0	2.9	3.0	3.0	0.0	0.0	3.0
Ref No.	IC6003																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	2.9	2.9	2.9	0.0	0.0	1.5	3.0	0.0	0.0	1.9
PLAY	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	2.9	2.9	2.9	0.0	0.0	1.5	3.0	0.0	0.0	1.9
REC.	0.0	3.0	0.0	0.0	3.0	3.0	3.0	3.0	0.0	3.0	2.9	2.9	2.9	0.0	0.0	1.5	3.0	0.0	0.0	1.9
F.F.	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	2.9	2.9	2.9	0.0	0.0	1.5	3.0	0.0	0.0	1.9
REW	0.0	3.0	0.0	0.0	3.0	0.0	3.0	0.0	0.0	3.0	2.9	2.9	2.9	0.0	0.0	1.5	3.0	0.0	0.0	1.9
Ref No.	IC6003																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	0.0	0.0	1.6	1.7	1.9	3.0	0.0	3.0	3.0	0.0	3.0	0.0	2.9	0.1	0.0	0.1	0.0	3.0	0.0	2.9
PLAY	0.0	0.0	2.5	1.7	2.0	3.0	0.0	3.0	0.0	0.0	3.0	0.0	2.9	0.1	2.9	0.1	0.0	3.0	0.0	0.0
REC.	0.0	0.0	1.7	1.7	2.0	3.0	0.0	3.0	3.0	0.0	3.0	0.0	2.9	0.1	0.0	0.1	0.0	3.0	0.0	2.9
F.F.	0.0	0.0	1.6	1.7	2.0	3.0	0.0	3.0	3.0	0.0	3.0	0.0	2.9	0.1	2.9	0.1	0.0	3.0	0.0	0.0
REW	0.0	0.0	1.6	1.7	2.0	3.0	0.0	3.0	3.0	0.0	3.0	0.0	2.9	0.1	2.9	0.1	0.0	3.0	0.0	0.0
Ref No.	IC6003																			
MODE	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140
STOP	2.6	3.0	3.0	3.0	0.0	0.0	2.9	0.1	2.8	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.1	3.0
PLAY	2.6	3.0	3.0	3.0	0.0	0.0	2.9	0.1	2.9	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.1	3.0
REC.	2.6	3.0	3.0	3.0	0.0	0.0	2.9	0.1	2.9	0.0	0.0	0.0	1.5	1.5	0.0	0.0	1.8	0.0	0.1	3.0
F.F.	2.6	3.0	3.0	3.0	0.0	0.0	2.9	0.1	2.9	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.1	3.0
REW	2.6	3.0	3.0	3.0	0.0	0.0	2.9	0.1	2.9	0.0	0.0	0.0	1.5	1.5	0.0	0.0	0.0	0.0	0.1	3.0
Ref No.	IC6003																			
MODE	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160
STOP	0.0	0.0	2.3	0.2	1.6	0.0	0.0	0.0	0.0	0.0	3.0	2.9	0.0	0.2	0.1	2.6	0.5	0.5	1.5	0.0
PLAY	0.0	0.5	1.2	1.2	1.6	0.0	0.0	1.3	0.0	0.0	3.0	2.9	0.0	0.2	0.1	2.5	1.5	0.5	1.5	0.0
REC.	0.0	0.0	2.3	1.2	1.6	0.0	0.0	0.0	0.0	0.0	3.0	2.9	0.0	0.2	0.1	2.6	1.5	0.5	1.5	0.6
F.F.	0.0	0.0	0.0	1.1	1.6	0.0	0.0	0.0	0.0	0.0	3.0	2.9	0.0	0.2	0.1	2.6	1.5	0.5	1.5	1.6
REW	0.0	0.0	1.1	1.1	1.6	0.0	0.0	0.0	0.0	0.0	3.0	2.9	0.0	0.2	0.1	2.6	1.5	0.5	1.5	1.6
Ref No.	IC6003																			
MODE	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180
STOP	0.0	0.0	2.8	0.0	0.1	2.9	0.0	2.6	1.5	3.0	3.0	0.0	2.6	1.5	0.0	3.0	3.0	2.8	0.0	1.6
PLAY	0.0	0.0	2.8	0.0	0.1	2.9	0.0	0.0	1.5	0.0	0.0	0.0	2.6	1.5	0.0	3.0	3.0	2.8	0.0	1.6
REC.	0.0	0.0	2.8	0.0	0.1	2.9	0.0	1.7	1.8	3.0	3.0	0.0	2.6	1.5	0.0	0.0	3.0	2.8	0.0	1.6
F.F.	0.0	0.0	2.9	0.0	0.1	2.9	0.0	1.6	1.5	3.0	3.0	0.0	2.5	1.5	0.0	1.3	3.0	2.8	0.0	1.6
REW	0.0	0.0	2.9	0.0	0.1	2.9	0.0	1.6	1.5	3.0	3.0	0.0	2.6	1.5	0.0	0.0	3.0	2.8	0.0	1.6
Ref No.	IC6003																			
MODE	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200
STOP	0.0	3.0	0.0	0.0	2.9	3.0	3.0	3.0	0.0	0.0	2.9	3.0	0.0	2.9	3.0	2.9	1.0	3.0	2.6	2.9
PLAY	0.0	0.0	0.0	3.0	2.9	3.0	3.0	0.0	0.0	0.0	2.9	3.0	0.0	2.9	3.0	2.9	0.9	3.0	2.6	2.9
REC.	0.0	3.0	0.0	0.0	2.9	3.0	3.0	3.0	0.0	0.0	2.9	3.0	0.0	2.9	3.0	2.9	3.0	3.0	2.6	3.1
F.F.	0.0	0.0	0.0	3.0	2.9	3.0	3.0	3.0	0.0	0.0	2.9	3.0	0.0	2.9	3.0	2.9	3.0	3.0	2.6	3.1
REW	0.0	0.0	0.0	3.0	2.9	3.0	3.0	3.0	0.0	0.0	2.9	3.0	0.0	2.9	3.0	2.9	3.0	3.0	2.6	3.1
Ref No.	IC6003																			
MODE	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216				
STOP	3.0	3.0	3.0	2.9	0.0	0.0	3.0	3.0	3.0	3.0	2.8	3.0	2.9	2.7	0.0	0.0				
PLAY	3.0	3.0	3.0	2.9	0.0	0.0	3.0	3.0	3.0	3.0	2.8	3.0	2.9	2.7	0.0	0.0				
REC.	3.0	3.0	3.0	2.9	0.0	0.0	3.0	3.0	3.0	3.0	2.9	3.0	2.9	2.7	0.0	0.0				
F.F.	3.0	3.0	3.0	2.9	0.0	0.0	3.0	3.0	3.0	3.0	2.8	3.0	2.9	2.7	0.0	0.0				
REW	3.0	3.0	3.0	2.9	0.0	0.0	3.0	3.0	3.0	3.0	2.8	3.0	2.9	2.7	0.0	0.0				

Ref No.	IC6008																			
MODE	1	2	3	4	5	6	7	8												
STOP	3.0	2.0	2.9	2.9	0.0	0.0	2.9	2.9												
PLAY	3.0	2.0	2.9	2.9	0.0	0.0	2.9	2.9												
REC.	3.0	2.0	2.9	2.9	0.0	0.0	2.9	2.9												
F.F.	3.0	2.0	2.9	2.9	0.0	0.0	2.9	2.9												
REW	3.0	2.0	2.9	2.9	0.0	0.0	2.9	2.9												
Ref No.	IC6009								IC6011											
MODE	1	2	3	4					1	2	3									
STOP	3.0	3.0	-	0.0					0.0	6.9	3.0									
PLAY	3.0	3.0	-	0.0					0.0	6.8	3.0									
REC.	3.0	3.0	-	0.0					0.0	6.8	3.0									
F.F.	3.0	3.0	-	0.0					0.0	6.8	3.0									
REW	3.0	3.0	-	0.0					0.0	6.8	3.0									

Ref No.	Q6001			Q6002			Q6003			Q6004			Q6006							
MODE	E	C	B	E	C	B	E	C	B	E	C	B	1	2	3	4	5			
STOP	0.0	4.8	-0.3	0.0	0.0	0.0	0.1	6.9	0.0	0.0	0.0	0.5	0.5	0.0	0.0	2.9	0.0			
PLAY	0.0	4.8	-0.3	3.0	3.0	2.4	0.1	6.8	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	2.9			
REC.	0.0	4.8	-0.3	3.0	3.0	2.4	0.1	6.8	0.0	0.0	0.0	0.5	0.5	0.0	0.0	2.9	0.0			
F.F.	0.0	4.8	-0.3	3.0	3.0	2.4	0.2	6.8	0.1	0.0	0.0	0.5	0.0	0.0	0.5	0.0	2.9			
REW	0.0	4.8	-0.3	3.0	3.0	2.4	0.2	6.8	0.1	0.0	0.0	0.5	0.0	0.0	0.5	0.0	2.9			
Ref No.	QR6003						QR6004						QR6005			QR6007				
MODE	1	2	3	4	5		1	2	3	4	5		E	C	B	E	C	B		
STOP	0.0	0.0	0.0	2.2	2.2		3.0	0.0	3.0	0.1	0.1		2.9	0.0	3.0	0.0	0.0	3.0		
PLAY	0.0	0.0	0.0	2.0	2.0		0.0	0.0	3.0	0.1	1.9		2.9	0.0	3.0	0.0	0.0	3.0		
REC.	0.0	0.0	0.0	2.2	2.2		3.0	0.0	3.0	0.1	0.1		2.9	0.0	3.0	0.0	0.0	3.0		
F.F.	0.0	0.0	0.0	2.2	2.2		0.0	0.0	0.0	2.4	2.6		2.9	0.1	2.9	0.0	0.0	3.0		
REW	0.0	0.0	0.0	2.2	2.2		0.0	0.0	0.0	2.4	2.6		2.9	0.1	2.9	0.0	0.0	3.0		
Ref No.	QR6009			QR6013			QR6014													
MODE	E	C	B	E	C	B	E	C	B											
STOP	0.0	3.0	0.0	3.0	3.0	0.0	0.0	6.2	0.0											
PLAY	0.0	3.0	0.0	3.0	3.0	0.0	0.0	6.5	0.0											
REC.	0.0	3.0	0.0	3.0	3.0	0.0	0.0	6.5	0.0											
F.F.	0.0	3.0	0.0	3.0	3.0	0.0	0.0	6.3	0.0											
REW	0.0	3.0	0.0	3.0	3.0	0.0	0.0	6.3	0.0											
Ref No.	QR6050																			
MODE	1	2	3	4	5															
STOP	0.0	0.0	0.0	0.1	0.0															
PLAY	0.0	0.0	0.0	0.1	0.0															
REC.	0.0	0.0	0.0	2.8	3.0															
F.F.	0.0	0.0	0.0	0.1	0.0															
REW	0.0	0.0	0.0	0.1	0.0															

:VIDEO MAIN SIGNAL PATH

IC3401
C0CBABC00089
(REG 3.1V)

IC3460
C0CBABC00089
(REG 3.1V)

IC3403
TC7SH08FU

IC3402
TC7W74FU

TO POWER
1 REG 4.8V

LB3450 J0JCC0000060
LB3401 J0JCC0000060
LB3460 J0JCC0000060

C3450 F3F0J1060005

TO VIDEO
EVR SBI 2
EVR SBO 1
EVR CAM CL 3

TO CAMERA2
30 SYS VD
32 SR CK
31 OSD HD
33 FM Y I0 (A1)
34 FM Y I1 (A2)
35 FM Y I2 (A3)
36 FM Y I3 (A4)
37 FM Y I4 (A5)
38 FM Y I5 (A6)
39 FM Y I6 (A7)
40 FM Y I7 (A8)
41 FM C I0 (A9)
42 FM C I1 (A10)
43 FM C I2 (A11)
44 FM C I3 (A12)

TO SYSTEM
3 HD ST1

IC3454
C1ZBZ0001650
(DSC I/F)

IC3451
C2DBHF000021
(DSC MICON)

IC3452
C3ABKG000058
(MEMORY)

IC3453
C0ZBZ0000275
(AMP)

IC3458
NJM2407R

R3467 100
R3456 100K
R3452 56
R3451 47K
R3453 2700
R3454 390K
R3455 10K
R3457 10K
R3403 22K
R3404 4700
R3401 470K
R3402 470K
R3405 47K
R3458 8200
R3460 100
R3461 100
R3465 100
R3466 270

C3451 0.1
C3452 470P
C3454 0.22
C3455 0.1
C3457 0.01
C3406 0.1
C3460 0.01
C3461 F3F0J1060005
C3462 0.1
C3463 0.1
C3464 0.1
C3465 0.1
C3402 0.01

CL3401

TO SYSTEM
S REG 3V 1
FWP FWE 2

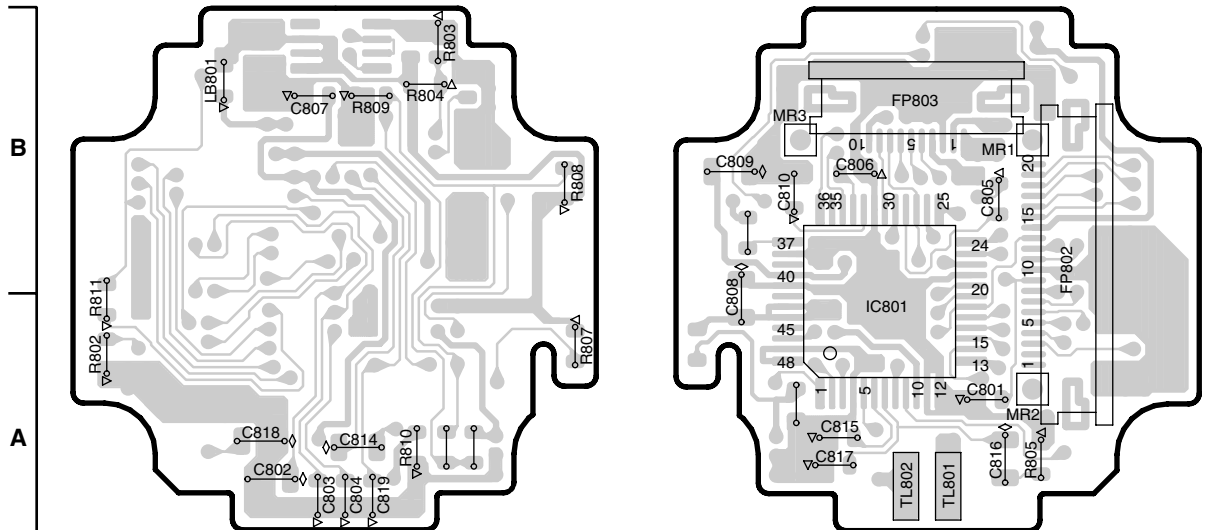
TO SYSTEM
CLK STOP 9
CAM TEST 57
SH RST 4
DSP RST 58
WAKE UP (H) 5
DSC DATA O 7
DSC DATA I 8
DSC CLK 6

TO AUDIO
8 R1
7 T
9 R2
10 S

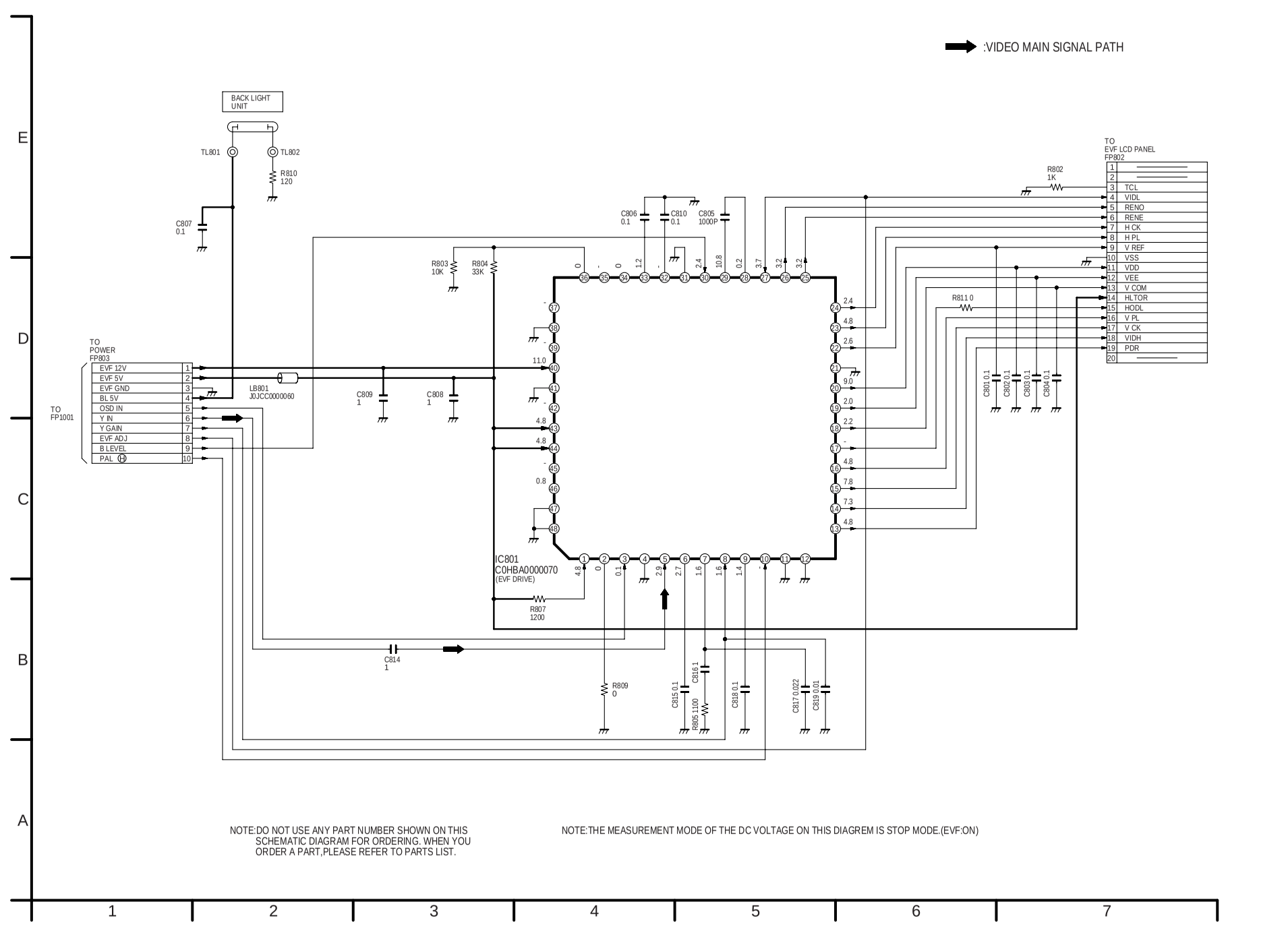
LB3461 VLP0153
LB3462 VLP0153

NOTE:DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING.WHEN YOU ORDER A PART,PLEASE REFER TO PARTS LIST.

NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.



(COMPONENT SIDE) (FOIL SIDE) VEP28283A



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NOTE:THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGREM IS STOP MODE.(EVF:ON)